

State of Missouri

Action Plan for the

2019 DR-4451

Disaster Recovery



Submitted to HUD for Review: The Action Plan will be submitted following the 30-day public comment period, July 30-August 29, 2020.

STATE OF MISSOURI ACTION PLAN FOR THE 2019 DR-4451 DISASTER RECOVERY

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Executive Summary of Missouri's 2019 CDBG-DR Action Plan

Between April to July of 2019, the State of Missouri was hit with heavy rains, straight-line winds, flooding, and tornadoes that resulted in two federally declared disasters. The disasters had a statewide impact. However, the disasters took their greatest toll on housing, especially that of vulnerable Low- to Moderate income citizens who will have a difficult time recovering themselves.

In the Federal Register Notice (85 FR 4681) released on 27 January 2020, HUD allocated \$30,776,000 to Missouri for the 2019 DR-4451 Disaster. HUD designated the three Missouri counties of Cole, Holt, and St. Charles as Most Impacted and Distressed (MID) and mandated that 80% of the allocation be used to their benefit. HUD further mandated that 70% of the allocation go to the benefit of Low- to Moderate citizens.

In this Action Plan, the State of Missouri will show how it will implement a disaster recovery prioritizing the unmet housing needs of Low- to Moderate income citizens and vulnerable populations in the three HUD designated Most Impacted and Distressed counties. The State of Missouri concurs with the HUD analysis concerning the Most Impacted and Distressed geographic counties and will provide Disaster Recovery services only to those areas designated as MID areas.

Missouri's Housing Program will focus on activities that maintain, improve, and increase resilience in communities. Missouri will reduce risk within communities that exist in the 100-year floodplain or floodway by buying out the homes, through voluntary acquisition, of Low- to Moderate income households and households belonging to vulnerable populations. The State's program will improve communities by acquiring and demolishing abandoned and blighted properties, leveraging private funds that will construct affordable housing. Missouri will also utilize CDBG-DR funds to increase the affordable multi-family rental stock.

The HUD Community Development Block Grant-Disaster Recovery allocation will not be able to meet all the unmet needs caused by the disasters of 2019. The State of Missouri is grateful for the grant and will use it to positively meet the unmet housing needs of some of its most vulnerable citizens.

1. UNMET NEEDS ASSESSMENT

Introduction

The winter of 2018-2019 brought substantial severe weather to the State of Missouri. Following the accumulation of a snowpack that was 200-300% above normal in the late winter, an approaching winter storm underwent bombogenesis as it crossed the Rocky Mountains and entered the Great Plains. The storm brought with it hurricane-force winds, several feet of snow, rapidly fluctuating temperatures, and substantial destruction to upland areas of the Missouri River basin. Upstream, in Nebraska, the bomb cyclone caused the overtopping and failure of hundreds of miles of levee systems along the Missouri River and its tributaries, as melting ice was jammed in river channels by floods rapidly flowing downstream toward Missouri, significantly impacting homes and businesses throughout the state.

The severe weather and impacts continued through March, as Missouri experienced numerous tornadoes, high winds, hail, heavy rains, and floods into July of 2019. Tragedy struck on the night of May 22, 2019, coincidentally on the 8-year anniversary of the EF-5 tornado that devastated Joplin, as an EF-3 tornado touched down and stayed on the ground for more than 32 miles, destroying numerous homes, businesses, and infrastructure at Carl Junction, Eldon and Jefferson City, Missouri. The high-water conditions in the Missouri River Basin persisted into May as well, leading to substantial sandbagging activities by the National Guard in Chariton County, where a levee was failing near Brunswick. On June 1, the Mississippi River crested at the second highest stage on record at 30.15 feet at Hannibal; at Canton, the Mississippi River reached a third-highest stage of 27.11 feet, and other locations topped historical flood stages observed in 1993, 2011, and 2015. By June 3, at least 28 levees had breached across the state, with flood damages reported in Hannibal, Canton, and Clarksville. More than 380 roads were closed in 56 counties due to significant, damaging floods, and more than 600 homes had been affected by severe storms. As federal disaster response and recovery programs were approved for Missourians, more than 1,400 households requested and received assistance in disaster recovery.¹ Throughout 2019, more than 1.2 million acres of Missouri were inundated by floodwaters and nearly 1.4 million acres of crops could not be planted.²

The counties of Cole, Holt and St. Charles saw a majority of the disaster impact in housing and especially on Low- to Moderate Income citizens. The three counties were the top three FEMA Individual Assistance applicant counties. They had 890 of the 2,217 (40%) FEMA Individual Assistance applicants. Cole, Holt and St. Charles counties had over \$7,000,000 of the \$13,500,000 FEMA Homeowner Housing damage. They were the three counties with the highest percentages of Low- to Moderate Income citizens impacted by the disaster, with 1,232 of the 2,271 impacted Low- to Moderate Income citizens. The three counties were the first, second and fourth highest percentage of Low- to Moderate Income Renters impacted counties in the disaster. They were also the top three counties in citizens with Access Functional Needs impacted by the disaster. Of the 304 citizens with Access Functional Needs, 123 were in Cole, Holt and St. Charles counties. The flooding and tornado damage created a greater and more significant unmet need in Cole, Holt and St. Charles counties than any other area in Missouri, especially on vulnerable populations like Low- to Moderate Income citizens and those with Access Function Needs.

¹ https://sema.dps.mo.gov/maps_and_disasters/disasters/4451.php

² <https://dnr.mo.gov/floodrecovery/docs/2019-08-27-frawg-minutes.pdf>

Responding to the severity of these events, Missourians demonstrated the grit and resilience of the Heartland. Neighbors helped neighbors, first responders risked life and limb to save lives, and volunteer organizations rapidly mobilized to deliver groceries and other resources to survivors of the catastrophic events.³ Though many tears were shed for community and individual losses, organizations such as the University of Missouri quickly stepped in to provide financial support and structure in damaged areas.⁴ Missouri helped neighboring states also impacted severely by the severe weather of 2019, and those neighboring states helped Missouri as residents of all ages responded to floods with community sandbagging efforts, “where sore backs and good consciences were the only reward.”⁵

As the State continues recovery efforts, the community spirit of neighbors helping neighbors was met with support from federal, state, local, university, and volunteer organizations, all working tirelessly to support individuals and families in need of basic services, shelter, and housing. Missouri’s Convoy of Hope stepped in to deliver groceries, totes, and boxes to residents packing up their belongings following the EF-3 tornado’s impacts in Jefferson City, altogether serving tens of thousands of Missourians through networks of hundreds of volunteers. Repairing damages to residences, businesses, and infrastructure will be key to rebuilding the affected parts of Missouri, with fiscal, social, and environmental challenges expected for years to come as state and local governments, civic organizations, and community leaders rise to the occasion.



St. Charles Co, SCCMO.org

³ <https://www.samaritanspurse.org/article/neighbors-helping-neighbors-after-missouri-floods/>

⁴ <https://news.missouri.edu/2019/neighbors-helping-neighbors/>

⁵ <https://news.mobar.org/executive-summary-a-legacy-of-service-helping-our-neighbors-navigate-disaster-recovery/>

Background

Since 2001, Congress has appropriated Community Development Block Grant Disaster Recovery (CDBG-DR) to certain, severely impacted communities that have received Presidential Disaster Declarations (PDD). Through subsequent legislation, the Supplemental Appropriations for Disaster Relief Act of 2017 allocated \$7.4 billion in CDBG-DR funds for qualifying disasters through 2017. The Supplemental Appropriations for Disaster Relief Act (2018) allocated \$28 billion in CDBG-DR funds and the Additional Supplemental Appropriations for Disaster Relief Act (2019) allocated \$3.8 billion in CDBG-DR funds to assist in long-term recoveries from major disasters that occurred in 2017, 2018, and 2019. Of these funds, HUD assigned \$10.03 billion to satisfy a portion of long-term recovery and unmet needs that remain after other federal assistance has been allocated, such as from the Federal Emergency Management Agency (FEMA), Small Business Administration (SBA), or private insurance.

The Department of Housing and Urban Development (HUD) uses the best available data to identify and calculate unmet needs for disaster relief, long-term recovery, restoration of infrastructure, and housing and economic revitalization. Based on this assessment, HUD notified the State of Missouri that it will receive an allocation of \$58,535,000 in disaster recovery funds to assist in recovery from the floods of 2017, with a minimum of \$46,828,000 (80%) to be spent on the most impacted and distressed areas of the state, identified by the following zip codes: 63935, 63965, 64850, 65616, 65775. In 2020, HUD allocated an additional \$9,847,018 in disaster recovery funds to supplement recovery from the floods of 2017, with no less than \$7,878,000 designated solely to the following zip codes: 63935, 63965, 64850, 65616, and 65775.

In the Federal Register notice (85 FR 4681)⁶, HUD notified the State of Missouri that it will receive an allocation of \$30,776,000 in disaster recovery funds to assist in recovery from disasters in 2019, with no less than \$24,621,000 to St. Charles County, zip code 64437 in Holt County, and zip code 65101 in Cole County.

The Disaster Relief Appropriations Act requires that the state or local government must expend the funds within six years of the signed agreement between HUD and the grantee unless an extension is granted by HUD. In order to ensure that the funds assist the most impacted areas, 80 percent of the combined total awarded to Missouri will go to the most impacted and distressed counties. HUD also states that, in the case of funds designated to a zip, the grantee may expand program operations to the whole county as a most impacted and distressed area. All the allocated funds must be used for eligible disaster-related activities. To ensure that fraud, waste, and misuse of funds does not occur, effective controls must be in place and monitored for compliance.

The Missouri Department of Economic Development (MO-DED) was designated by Governor Mike Parson as the responsible entity for administering the CDBG-DR funds allocated to the State.

As required by HUD, Missouri submits this Unmet Needs Assessment as part of its Action Plan to outline its unmet needs to develop the most impactful recovery program for the state. The Unmet Needs Assessment, which evaluates the three core aspects of recovery – housing, infrastructure, and economic development, forms the basis for the decisions outlined in the Action Plan. This Unmet Needs Assessment

⁶ <https://www.govinfo.gov/content/pkg/FR-2020-01-27/pdf/2020-01204.pdf>

was developed with the help of many state and local stakeholders, as well as the general public, in order to identify and prioritize the greatest unmet needs that can be addressed by these limited federal funds.

Missouri Disaster Recovery Program

Summary of Impacted and Presumptively Declared Counties

Severe weather during the Spring of 2019 caused substantial impacts to Missouri. In early March 2019, a “bomb cyclone” delivered extreme precipitation, wind, and infrastructure damage to parts of the Great Plains. The combination of more than 3 feet of snow followed by a rapid rise in temperatures, several inches of rain, and melting ice led to severe flooding along the Missouri River and a failure of the 92-year-old Spencer Dam upstream in Nebraska, which caused an 11-foot wall of water to inundate the Town of Niobrara.⁷ The ice and floods caused substantial ice jams, and more than 163 levees in 45 levee systems were breached; the U.S. Army Corps of Engineers estimated that more than 1,000 miles of levees breached along the Missouri River and its tributaries, causing at least \$1 billion in infrastructure damages.⁸

From March 2019 through July 2019, Missouri also experienced tornadoes, high winds, hail, and heavy rains that further set the stage for major flooding along the Missouri and Mississippi rivers. The prolonged inundation and ground failure across the state also caused flash flooding in many areas. As a result of snowpack that was two to five times above normal during this same timeframe, there was also significant river flooding in the northern plains. Additionally, the state endured rainfall that was 200% to 300% of normal, resulting in long-term, major flooding throughout the state from May to early June. Some areas in the state experienced river flooding exceeding historic levels received in 1993, 2011, and 2015. From late April through May 2019, numerous tornadoes impacted the state, including an EF-3 tornado with 160 mph winds that was on the ground for more than 32 miles, devastating parts of Jefferson City (Callaway and Cole Counties) and causing several fatalities.^{9,10,11,12,13} Of at least 908 reports of severe weather affecting Missouri in 2019, there were 98 reported tornadoes.¹⁴



⁷ <https://www.kcur.org/post/saturated-and-still-dealing-floods-northwest-missouri-fears-more-spring>

⁸ <https://www.kmbc.com/article/farmland-remains-underwater-after-historic-flooding-along-missouri-river/29778821#>

⁹ <https://www.arcgis.com/apps/MapSeries/index.html?appid=78f64ed973c1459f9abf41c8e3e6317e>

¹⁰ <https://www.weather.gov/lsx/May2122SevereStorms>

¹¹ https://www.weather.gov/sgf/2019_April_30_TornadoOutbreak

¹² https://www.weather.gov/eax/28May2019_Tornadoes

¹³ <https://twitter.com/MoPublicSafety/status/1131416290470629376>

¹⁴ <https://www.spc.noaa.gov/climo/online/monthly/states.php?month=00&year=2019&state=MO>

Communities across the state suffered significant damage to hundreds of homes resulting from these various weather events and their sustained impacts. Businesses and multiple water and wastewater treatment facilities were also impacted. In Holt County, floodwaters inundated about 20 percent of croplands, preventing the planting of more than 95 percent of croplands and causing substantial impacts to local sales tax revenue.¹⁵ The Missouri Department of Transportation reported over 200 road closures, including major state highways and Interstate 29, the primary north-south thoroughfare serving the Upper Midwest and Great Plains region between Kansas City, Missouri and Winnipeg, Manitoba, Canada.¹⁶

Individual Impacts

● Total Number of Residences Impacted: ¹⁷	1,650
○ Destroyed:	209
○ Major Damage:	744
○ Minor Damage:	433
○ Affected:	264
● Percentage of Insured Residences: ¹⁸	49.7%
● Percentage of Poverty Households: ¹⁹	12.3%
● Percentage of Ownership Households:	82.0%
● Population Receiving Other Government Assistance such as SSI and SNAP:	13.2%
● Pre-Disaster Unemployment:	3.3%
● Age 65 and Older:	15.6%
● Age 18 and Under:	22.5%
● Disability:	8.7%
● IHP Cost to Capacity (ICC) Ratio:	45
● Total Individual Assistance Cost Estimate:	\$13,613,517

Public Infrastructure Impacts

¹⁵ <https://www.kcur.org/post/saturated-and-still-dealing-floods-northwest-missouri-fears-more-spring>

¹⁶ <https://apnews.com/76f253a8294a411d8bf077daf258f4ec>

¹⁷ Degree of damage to impacted residences:

- Destroyed – total loss of structure, structure is not economically feasible to repair, or complete failure to major structural components (e.g., collapse of basement walls/foundation, walls or roof);
- Major Damage – substantial failure to structural elements of residence (e.g., walls, floors, foundation), or damage that will take more than 30 days to repair;
- Minor Damage – home is damaged and uninhabitable, but may be made habitable in short period of time with repairs; and
- Affected – some damage to the structure and contents, but still habitable.

¹⁸ By law, Federal disaster assistance cannot duplicate insurance coverage. 42 U.S.C. § 5155 and 44 C.F.R. § 206.48(b)(5).

¹⁹ Special populations, such as low-income, the elderly, or the unemployed may indicate a greater need for assistance. 44 C.F.R. § 206.48(b)(3).

- Statewide Per Capita Impact Indicator:²⁰ \$1.50
- Countywide Per Capita Impact Indicator:²¹ \$3.78

Declaration

Two Presidential Disaster Declarations were issued in response to state-wide disaster. On May 20, 2019, DR-4435-MO was approved in response to damages caused by the severe storms, straight-line winds, and flooding during the period of March 11th to April 16th. Under this declaration a total of 16 counties in the state were approved to receive support from FEMA's Public Assistance (PA) program and the Hazard Mitigation Grant Program (HMG). However, DR-4435-MO did not include support from FEMA's Individual Assistance (IA) program.

On July 9, 2019, DR-4451-MO was approved in response to damages caused by the severe storms, tornadoes, and flooding for the period of April 29th to July 5, 2019 (Figure 1). A total of 87 of the 114 counties in the state were approved for FEMA program assistance. Of these, 61 received Public Assistance (PA) only (Table 2); four received Individual Assistance (IA) only; and 22 received both PA and IA. The Hazard Mitigation Grant Program (HMG) was also approved statewide. While DR-4435-MO and DR-4451-MO had similar effects and impacted many of the same areas, this assessment will focus on the 26 counties approved for IA (Table 1). There were 16 counties approved for PA in DR-4435-MO that were also included in DR-4451-MO. Of those 16 overlapping counties, eight (8) were approved for IA, causing confusion among survivors regarding their eligibility for IA based on their FEMA registration date.²² This was especially prominent in Northwest Missouri where five of the eight overlapping IA approved counties are located.

COVID-19 Operating Environment

On Wednesday, March 11, 2020, the World Health Organization (WHO) declared the worldwide outbreak of COVID-19 (a/k/a “novel coronavirus,” specifically named “severe acute respiratory syndrome coronavirus 2” or SARS-CoV-2) an official pandemic as the disease rapidly spread to more than 114 counties, sickening more than 100,000 people and causing more than 4,000 deaths.²³ The WHO issued medical mitigation guidance, including calling for widespread social isolation and deployment of response resources to squelch community transmission of COVID-19, the first coronavirus that has ever caused a pandemic.

On Thursday, March 26, 2020, a Presidential Disaster Declaration designated for Public Assistance Category B (emergency protective measures, including direct federal assistance) all counties in the State of Missouri in response to the COVID-19 pandemic. Accordingly, HUD issued a “CDBG-DR COVID-19 Fact

²⁰ Statewide Per Capita Impact Indicator for FY19, Federal Register, October 1, 2018.

²¹ Countywide Per Capita Impact Indicator for FY19, Federal Register, October 1, 2018.

²² <https://www.kansascity.com/news/politics-government/article237837154.html>

²³ <https://www.who.int/dg/speeches/detail/who-director-general-s-opening-remarks-at-the-media-briefing-on-covid-19---11-march-2020>

Sheet" on Tuesday, March 31, 2020 to provide guidance to the recipients of federal funding under CDBG programs.²⁴ The guidance addresses several key concerns for the use of CDBG-DR and MIT funds:

1. A CDBG-DR grantee **may not** use CDBG-DR funds to address the COVID-19 pandemic.
2. A CDBG-DR grantee **may generally** use program income generated by its CDBG-DR activities to support the COVID-19 pandemic, advising grantees to consult the *Federal Register* for any variances in the use of program income.
3. HUD began authorizing 90-day extensions of the established deadline for all CDBG-MIT action plans and financial management and grant compliance certification submissions due to the COVID-19 pandemic, advising grantees to consult the *Federal Register* for specific action plan submission dates or to determine if HUD approval letters for extensions were granted. Further, HUD is granting additional flexibility to grantees who received allocations for 2018 or 2019 disasters, including for 2017 unmet infrastructure needs.
4. HUD is authorizing a 90-day extension for all CDBG-DR quarterly performance reports under the National Disaster Resilience program.
5. Grantees may continue to submit requests for release of funds and receive authorization to use grant funds from HUD.
6. HUD is allowing CDBG-MIT grantees *only* the option to hold virtual public hearings for public participation/hearing requirements when there is concern for significant public health risks from COVID-19 pandemic.

The spread and impact of COVID-19 remains a very dynamic situation for the U.S. and State of Missouri. As of Wednesday, July 15, 2020 Missouri had 29,714 confirmed cases of COVID-19 with 1,103 related deaths. The State of Missouri's Show Me Strong Recovery Plan recommended 6 foot social distancing space, staying at home if a citizen feels sick, practicing good hygiene, and avoiding socializing in groups that do not readily allow for appropriate physical distancing.

The State of Missouri's CDBG-DR Program will conduct all aspects of its program in accordance with the Center for Disease Control and Prevention (CDC), Missouri's Show Me Strong Recovery Plan and Missouri Department of Health and Senior Services guidance.

²⁴ <https://files.hudexchange.info/resources/documents/CDBG-DR-COVID-19-FAQs.pdf>

Table 1. Individual Assistance Declared County List for DR-4451

COUNTY	INDIVIDUAL ASSISTANCE	PUBLIC ASSISTANCE
Andrew	✓	✓
Atchison	✓	✓
Boone	✓	✓
Buchanan	✓	✓
Callaway	✓	✓
Carroll	✓	✓
Chariton	✓	✓
Cole	✓	✓
Greene	✓	IA Only
Holt	✓	✓
Jackson	✓	✓
Jasper	✓	✓
Jefferson	✓	IA Only
Lafayette	✓	✓
Lewis	✓	✓
Lincoln	✓	✓
Livingston	✓	✓
McDonald	✓	✓
Miller	✓	✓
Newton	✓	✓
Osage	✓	IA Only
Pike	✓	✓
Platte	✓	IA Only
Pulaski	✓	✓
Saline	✓	✓
St. Charles	✓	✓
Grand Total	26	22

Table 2. Public Assistance Only County List for DR-4451

Adair	Harrison	Putnam
Barry	Henry	Ralls
Barton	Hickory	Randolph
Bates	Howard	Ray
Benton	Howell	Schuylerville
Bollinger	Knox	Scotland
Caldwell	Laclede	Scott
Camden	Linn	Shannon
Cape Girardeau	Macon	Shelby
Cedar	Maries	St. Clair
Clark	Marion	St. Louis
Clay	Mercer	Ste. Genevieve
Cooper	Mississippi	Stoddard
Dade	Monroe	Sullivan
Dallas	Montgomery	Taney
Daviess	New Madrid	Texas
Douglas	Nodaway	Vernon
Dunklin	Ozark	Wayne
Gasconade	Pemiscot	Webster
Gentry	Perry	Wright
Grundy		

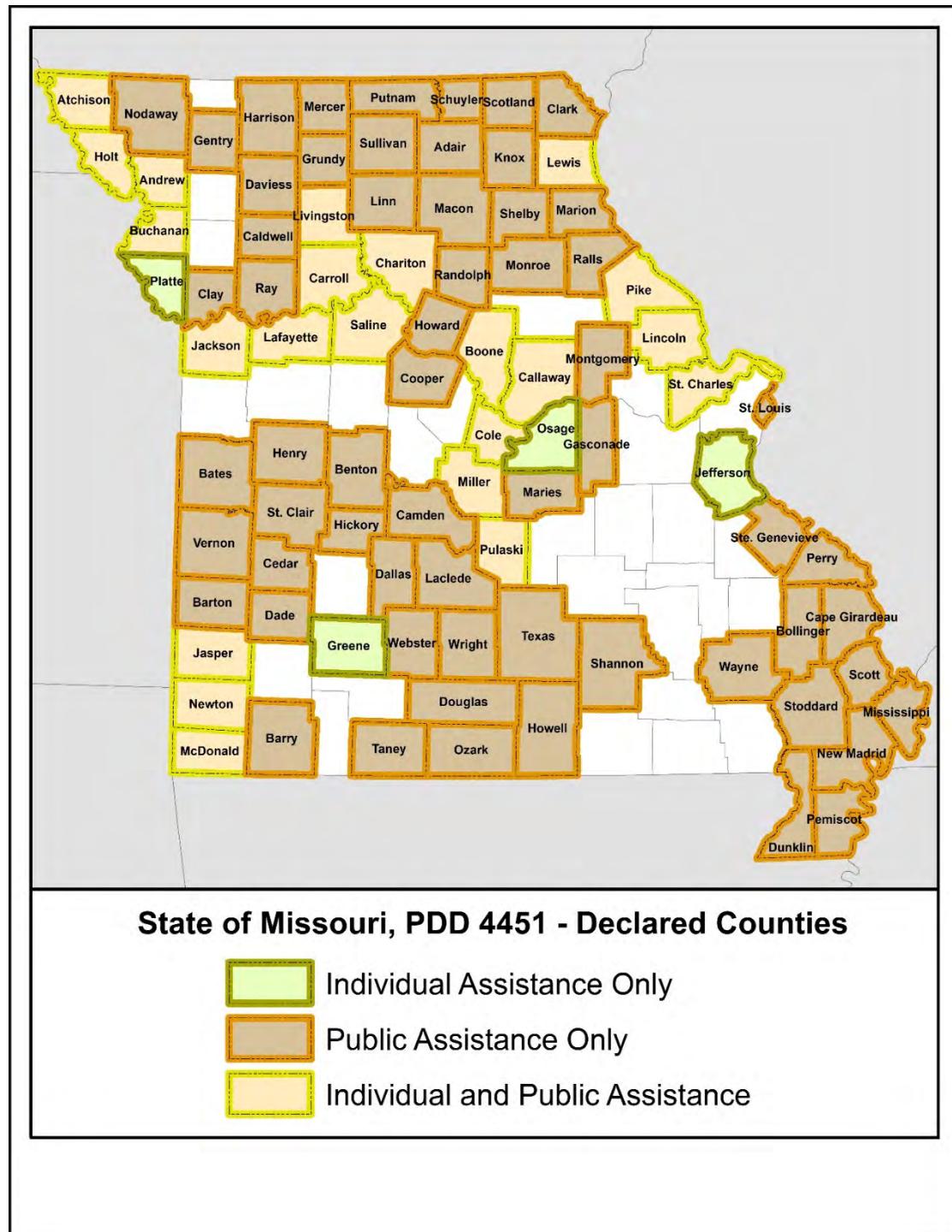


Figure 1. PDD 4451 Declared Counties

Demographic and impact data for this report was largely generated using 2017 American Community Survey 5-Year Survey data, FEMA Individual Assistance (March 11, 2020), and Small Business Administration Home Loan Program data (April 6, 2020). A variety of data sources was used to

determine Missouri's impacts and unmet needs, including information from several state and federal government data sources (Table 3).

Table 3. Data sources utilized in this assessment

Theme	Data	Source (and URL where available)
Impact Guidance	83 FR 40314	Housing and Urban Development - https://www.govinfo.gov/content/pkg/FR-2018-08-14/pdf/2018-17365.pdf
	85 FR 4681	https://www.govinfo.gov/content/pkg/FR-2020-01-27/pdf/2020-01204.pdf
	81 FR 39687	https://www.govinfo.gov/content/pkg/FR-2016-06-17/pdf/2016-14110.pdf
	82 FR 36812	https://www.govinfo.gov/content/pkg/FR-2017-08-07/pdf/2017-16411.pdf
	82 FR 5591	https://www.govinfo.gov/content/pkg/FR-2017-01-18/pdf/2017-01007.pdf
Demographics	United States Census Data	https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t
	HUD Income Limit Data	https://www.huduser.gov/portal/datasets/il.html#2018
	United States Census Households over 65 Living Alone	https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_S1101&prodType=table
	United States Census Median Family Income	https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_S1903&prodType=table
	United States Census Race	https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_B02001&prodType=table
	United States Census County Quick Facts	https://www.census.gov/quickfacts/fact/table/f1/HSG010217
Economic Impacts	Homelessness	http://www.mhdc.com/ci/Missouri%20Homelessness%20Study_Final_11.18.19.pdf
	Small Business Administration Home Loan Report	Small Business Administration
	Small Business Administration Business Loan Report	Small Business Administration

	Preliminary Damage Assessment	Federal Emergency Management Agency - https://www.fema.gov/media-library-data/1572488906765-15d185931ba36ff51e94b7b9661b9db6/FEMA4451DRMO.pdf
Event Impacts	Presidential Disaster Declaration Areas	https://www.fema.gov/disaster/4451/designated-areas
	Low - Mod Income data	https://www.hudexchange.info/programs/acs-low-mod-summary-data/acs-low-mod-summary-data-block-groups-places/
Housing Impacts	FEMA Applicant Data - Homeowners	https://www.fema.gov/openfema-dataset-housing-assistance-data-owners-v1
	FEMA Applicant Data - Renters	https://www.fema.gov/openfema-dataset-housing-assistance-data-renters-v1
	FEMA Disaster Declaration Summaries	https://www.fema.gov/openfema-dataset-disaster-declarations-summaries-v1
Infrastructure Impacts	FEMA FIDA 4451	Federal Emergency Management Agency
	Open FEMA Dataset: Public Assistance Funded Project Details	https://www.fema.gov/openfema-dataset-public-assistance-funded-projects-details-v1
Infrastructure Impacts	Missouri Flood Recovery Advisory Working Group	https://dnr.mo.gov/floodrecovery/

Targeting Priority Needs

This assessment will focus heavily on three counties outlined in Federal Register notice (85 FR 4681)²⁵. In 85 FR 4681 HUD notified the State of Missouri that no less than \$24,621,000 of the \$30,776,000 should be spent in St. Charles County, zip code 64437 in Holt County, and zip code 65101 in Cole County. Drawing from this pre-determined set of Most Impacted and Distressed (MID) counties, this unmet need assessment will highlight Cole, Holt, and St. Charles Counties but will also provide impact and unmet need information for all DR-4451 Individual Assistance counties. The pages that follow will highlight not only the current impacts in the MID counties but will also provide justification for other impacted and distressed counties that would likely require additional resources in the form of potential future DR allocations, non-profit, philanthropic, or private funding to speed recovery.

²⁵ <https://www.govinfo.gov/content/pkg/FR-2020-01-27/pdf/2020-01204.pdf>

A Focus on Low-Moderate Income, Lack of Insurance, and Impacts

FEMA released (in early 2020) redacted²⁶ applicant level Individuals and Household Program (IHP) dataset for every Presidential Declared disaster in which the Individual and Households Program was activated. A cursory analysis of the DR-4451 records within this dataset revealed that HUD's determination of most impacted and distressed counties aligns with FEMA's general accounting for impacts, vulnerabilities, and potential obstacles to a full recovery. Using FEMA's Open IHP data³⁰ to understand general impacts and recovery support provides a generally complete understanding of the types of households requesting assistance, income, household composition, housing type and tenure, amount of damage to structures, funding made available, and indication of access and functional needs, and ages of persons living in impacted housing. As such, the IHP data enables one to categorize and compare across designated counties. Several indicator variables (Table 4) were created from FEMA's IHP data based on guidance from HUD. Included in these variables were indicators of Low-Moderate Income populations, applicants without homeowners or flood insurance, those with flood specific damage, and an accounting of personal property losses.

Table 4. Most Impacted and Distressed Indicator Sets

<i>Indicator Variable</i>	<i>Variable Type</i>	<i>Variable Description</i>	<i>Variable Weighing for Impact Scoring Equation</i>
<i>LMI Score</i>	Count	Score of county owners below 80% LMI as a ratio of all IA county owners below 80% LMI (0-1)	3 X Importance
<i>IA Ineligible, No HOI, but with damage score</i>	Count	Score of county HA ineligible owner applicants with real property loss but with no homeowner's insurance as ratio of all IA county ineligible owners with real property losses but no homeowner's insurance (0-1)	2 X Importance
<i>No FI Damage Score</i>	Damage Sum	Score of total county flood damage for owners without flood insurance as ratio of all flood damage for owners without flood insurance	1 X Importance
<i>Flood Damage Count Score</i>	Count	Score of number of owner units in county with flood damage as a ratio of all IA owner units with flood damage	1 X Importance
<i>Count of Real Property Score</i>	Count	Score of total number of owner units with real property loss in county as a ratio of all IA owner units with real property losses	1 X Importance
<i>Count of Personal Property Score</i>	Count	Score of total number of owner units with personal property loss in county as a ratio of all IA owner units with personal property losses	1 X Importance

²⁶ No personally identifiable information is present in this FEMA dataset. All PII had been removed prior to posting on OPEN FEMA at <https://www.fema.gov/openfema-dataset-individuals-and-households-program-ihp-validation-registrations>. Data downloaded on 3/11/2020.

Indicator Variable	Variable Type	Variable Description	Variable Weighing for Impact Scoring Equation
Average Personal Property Score	Average Damage Sum	Score of average personal property loss for owner units in county in relation to average personal property losses for all IA owner units with personal property losses	1 X Importance

Ratios of each indicator to the total state value for that indicator created a value enabling comparison across counties – irrespective of county size. For instance, the LMI ratio value was calculated as the total number of LMI applicants in a given county divided by the total number of LMI applicants across all IA declared counties (Table 5).

Table 5. Most Impacted and Distressed Indicator Ratios

County	LMI Ratio	IA Ineligible, No HOI, with RPFVL Ratio	No FI with Flood Damage Ratio	Count of Flood Damaged Homes Ratio	Count of Real Property Ratio	Count of Personal Property Ratio	Average PPFVL Ratio
Cole	11.28%	11.86%	0.64%	5.05%	11.30%	5.61%	\$3,034
Holt	7.95%	1.69%	11.99%	7.45%	14.63%	9.13%	\$2,751
St. Charles	25.81%	15.25%	22.06%	32.31%	46.28%	31.73%	\$2,257
Andrew	5.11%	6.78%	4.35%	5.59%	10.64%	3.37%	\$1,668
Atchison	1.95%	0.85%	2.44%	2.13%	3.59%	2.56%	\$1,600
Boone	0.73%	0.85%	1.44%	0.93%	0.93%	0.80%	\$4,105
Buchanan	3.33%	4.24%	5.25%	4.12%	9.71%	3.69%	\$2,033
Callaway	0.89%	0.00%	0.87%	0.80%	2.13%	0.64%	\$1,833
Carroll	2.27%	1.69%	1.13%	2.13%	4.52%	1.12%	\$1,933
Chariton	4.14%	5.08%	5.23%	3.46%	5.72%	2.24%	\$3,190
Greene	1.79%	0.00%	0.67%	1.06%	4.92%	1.76%	\$656
Jackson	4.14%	2.54%	8.05%	4.39%	11.17%	5.29%	\$3,280
Jasper	3.33%	5.08%	2.07%	2.26%	9.04%	3.04%	\$1,078
Jefferson	1.06%	3.39%	0.44%	1.06%	1.60%	0.96%	\$1,081
Lafayette	0.81%	0.85%	0.75%	0.93%	1.33%	0.80%	\$1,401
Lewis	0.73%	0.00%	0.97%	0.93%	1.60%	0.96%	\$2,422
Lincoln	7.87%	0.85%	12.51%	10.37%	12.23%	8.97%	\$2,450
Livingston	1.38%	2.54%	3.92%	1.33%	2.39%	1.76%	\$3,242
McDonald	3.49%	2.54%	7.00%	3.72%	7.58%	5.45%	\$2,480
Miller	3.57%	8.47%	0.07%	0.53%	4.12%	0.96%	\$4,011
Newton	2.52%	4.24%	2.25%	3.86%	6.91%	3.21%	\$1,383
Osage	0.81%	0.00%	0.44%	0.93%	1.60%	0.48%	\$633
Pike	3.00%	4.24%	4.85%	3.19%	6.78%	3.85%	\$2,485
Platte	0.81%	1.69%	0.31%	0.80%	1.33%	0.96%	\$1,183

County	LMI Ratio	IA Ineligible, No HOI, with RPFVL Ratio	No FI with Flood Damage Ratio	Count of Flood Damaged Homes Ratio	Count of Real Property Ratio	Count of Personal Property Ratio	Average PPFVL Ratio
Pulaski	1.14%	0.00%	0.00%	0.53%	1.73%	0.48%	\$2,141
Saline	0.08%	15.25%	0.29%	0.13%	0.53%	0.16%	\$920

These values were then converted into scores ranging from zero to one (0-1) using a min/max scaling technique so that each value could be compared directly to the next. Finally, weighting applied more importance to LMI populations and those places with higher numbers of FEMA IHP ineligible applicants, without insurance, who were found to have damage – real or personal. A focus of LMI populations and those without insurance aligns this assessment with federal guidance and provides a view of those counties across Missouri with both higher impacts and more disaster victims in distress (Table 6).

Table 6. Most Impacted and Distressed Indicator Scores

County	LMI Score	IA Ineligible, No HOI, with RPFVL Score	No FI with Flood Damage Score	Count of Flood Damaged Homes Score	Count of Real Property Score	Count of Personal Property Score	Average PPFVL Score
Cole	0.44	0.78	0.03	0.15	0.24	0.17	0.69
Holt	0.31	0.11	0.54	0.23	0.31	0.28	0.61
St. Charles	1.00	1.00	1.00	1.00	1.00	1.00	0.47
Andrew	0.20	0.44	0.20	0.17	0.22	0.10	0.30
Atchison	0.07	0.06	0.11	0.06	0.07	0.08	0.28
Boone	0.03	0.06	0.07	0.02	0.01	0.02	1.00
Buchanan	0.13	0.28	0.24	0.12	0.20	0.11	0.40
Callaway	0.03	0.00	0.04	0.02	0.03	0.02	0.35
Carroll	0.09	0.11	0.05	0.06	0.09	0.03	0.37
Chariton	0.16	0.33	0.24	0.10	0.11	0.07	0.74
Greene	0.07	0.00	0.03	0.03	0.10	0.05	0.01
Jackson	0.16	0.17	0.36	0.13	0.23	0.16	0.76
Jasper	0.13	0.33	0.09	0.07	0.19	0.09	0.13
Jefferson	0.04	0.22	0.02	0.03	0.02	0.03	0.13
Lafayette	0.03	0.06	0.03	0.02	0.02	0.02	0.22
Lewis	0.03	0.00	0.04	0.02	0.02	0.03	0.52
Lincoln	0.30	0.06	0.57	0.32	0.26	0.28	0.52
Livingston	0.05	0.17	0.18	0.04	0.04	0.05	0.75
McDonald	0.13	0.17	0.32	0.11	0.15	0.17	0.53
Miller	0.14	0.56	0.00	0.01	0.08	0.03	0.97
Newton	0.09	0.28	0.10	0.12	0.14	0.10	0.22
Osage	0.03	0.00	0.02	0.02	0.02	0.01	0.00
Pike	0.11	0.28	0.22	0.10	0.14	0.12	0.53

<i>Platte</i>	0.03	0.11	0.01	0.02	0.02	0.03	0.16
<i>Pulaski</i>	0.04	0.00	0.00	0.01	0.03	0.01	0.43
<i>Saline</i>	0.00	1.00	0.01	0.00	0.00	0.00	0.08

Finally, these values were summed using the weighting described in Table 4 generating a total score for each IA declared county. These scores were ranked from 1-26 resulting in St. Charles, Cole, and Holt as the most impacted and distressed (Table 7). Interestingly, several counties ranked just below these MID counties were very close in total score to those identified in 85 FR 4681²⁷ as the most impacted and distressed. Lincoln, Miller, Andrew, and Jackson each exhibited higher scores in some indicators. As their scores and ranks indicate, survivors in these counties would benefit from any future disaster recovery funds made available in the future.

Table 7. Most Impacted and Distressed Indicator Final Scores and Ranks

County	Total Impact Score	Rank of Impact Score
<i>St. Charles</i>	9.47	1
<i>Cole</i>	4.14	2
<i>Holt</i>	3.11	3
<i>Lincoln</i>	2.96	4
<i>Miller</i>	2.61	5
<i>Andrew</i>	2.46	6
<i>Jackson</i>	2.46	7
<i>Chariton</i>	2.40	8
<i>Saline</i>	2.10	9
<i>McDonald</i>	2.01	10
<i>Buchanan</i>	2.01	11
<i>Pike</i>	2.00	12
<i>Jasper</i>	1.61	13
<i>Livingston</i>	1.54	14
<i>Newton</i>	1.51	15
<i>Boone</i>	1.31	16
<i>Carroll</i>	1.08	17
<i>Atchison</i>	0.92	18
<i>Jefferson</i>	0.78	19
<i>Lewis</i>	0.71	20
<i>Pulaski</i>	0.61	21
<i>Callaway</i>	0.55	22
<i>Platte</i>	0.54	23

²⁷ <https://www.govinfo.gov/content/pkg/FR-2020-01-27/pdf/2020-01204.pdf>

Lafayette	0.51	24
Greene	0.41	25
Osage	0.16	26

A Focus on Social Vulnerability

Missouri utilized the Social Vulnerability Index²⁸ to inform the recovery action plan development process by empirically delineating the most socially vulnerable census tracts within each IA designated county. **Residents in these high vulnerability areas generally have a lower ability to adequately prepare for, respond to, and rebound from environmental impacts (such as floods), shocks, and stresses.** Vulnerable populations will often require additional resources and support in order to bounce back. Failure to support vulnerable populations during disaster recovery may ultimately lead to additional impacts and resource needs weeks, months, and years down the line.

Utilizing social vulnerability information in concert with FEMA damage data provides a standardized, replicable, and pragmatic process for understanding where scarce resources would be most helpful in driving successful disaster recovery. FEMA's lists of Individual Assistance (IA) applicants and identifies those applicants with a FEMA verified loss. This list does not contain any personally identifiable information (PII). Combining FEMA damage data at the zip code level – the most granular level available from this set of FEMA data²⁹, provided a more nuanced view of damages across the state. FEMA verified losses were overlaid with social vulnerability information to identify areas that were both heavily impacted and had a lower capacity to absorb such losses (Figure 2). Here, one can see the intersection of higher losses (zip code level) and places with lower vulnerability in the eastern and central IA counties. These places are characterized by a general attenuation of impacts due to lower levels of social vulnerability. Conversely, populations residing in northwestern and north central IA counties, although much less heavily populated, are characterized by generally higher levels of social vulnerability. In Cole County, a north- south swath of high impact and medium to high social vulnerability is clear (Figure 3) while in Holt County social vulnerability is high across many census tracts and losses are medium to low (Figure 4). Finally, St. Charles County has pockets of high vulnerability and high losses, but in general the populations across the county have lower vulnerability although they experienced higher losses (Figure 5). Bivariate maps of losses and social vulnerability for the remainder of IA counties can be found in Appendix A. Targeting resources to these most heavily impacted and vulnerable areas will yield the highest benefit because these areas will be much less able to bounce back without outside assistance.



St Louis, Post Dispatch David Carson

²⁸ www.vulnerabilitymap.org

²⁹ No personally identifiable information is present in this FEMA dataset. All PII had been removed prior to posting on OPEN FEMA at <https://www.fema.gov/openfema-dataset-individuals-and-households-program-ihp-valid-registrations>. Data downloaded on 3/11/2020.

This geographic overlay, combining areas of highest vulnerability with the areas containing significant numbers of damaged homes, shown in the map below, clearly indicates that some counties and sub-county areas **not only contain the highest rate of damaged homes but often also have the highest social vulnerability** (Figure 2). **Targeting support to these areas in the immediate and long-term recovery phases of the flood disaster will yield the best outcomes for those with the highest need.** This view provides an additional perspective in support of implementation, outreach, and program design. However, a comprehensive analysis of Unmet Needs is discussed in greater detail in Section 3, Unmet Needs Assessment.

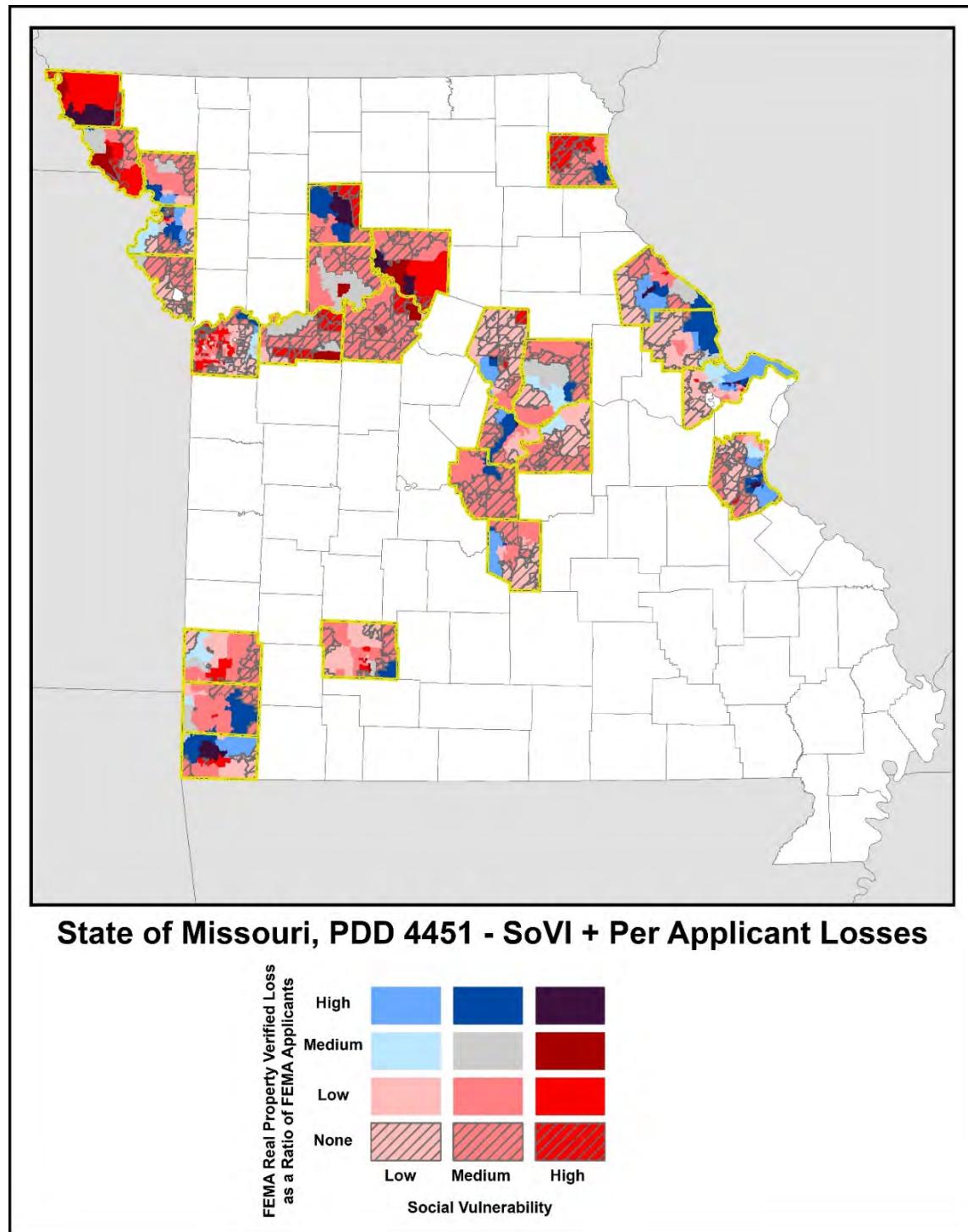


Figure 2. Bivariate Overlay of Damaged Housing Units & Social Vulnerability – DR-4451 IA Counties.

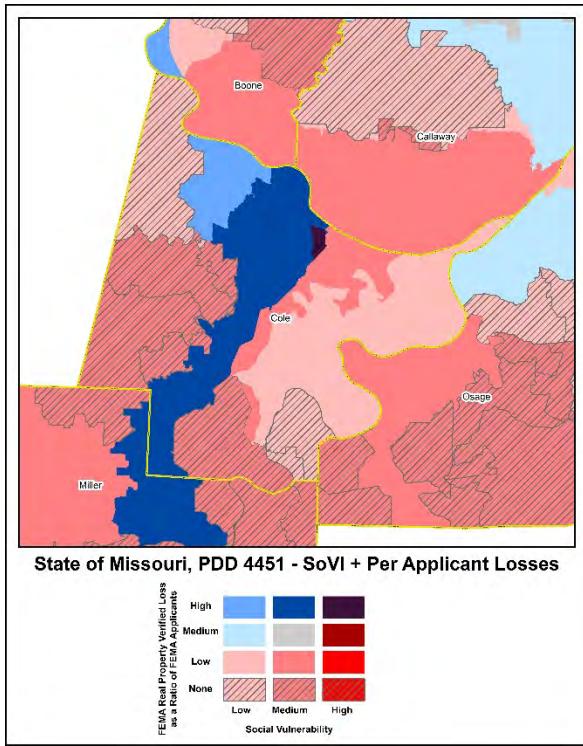


Figure 3. Bivariate Overlay of Damaged Housing Units & Social Vulnerability – Cole County.

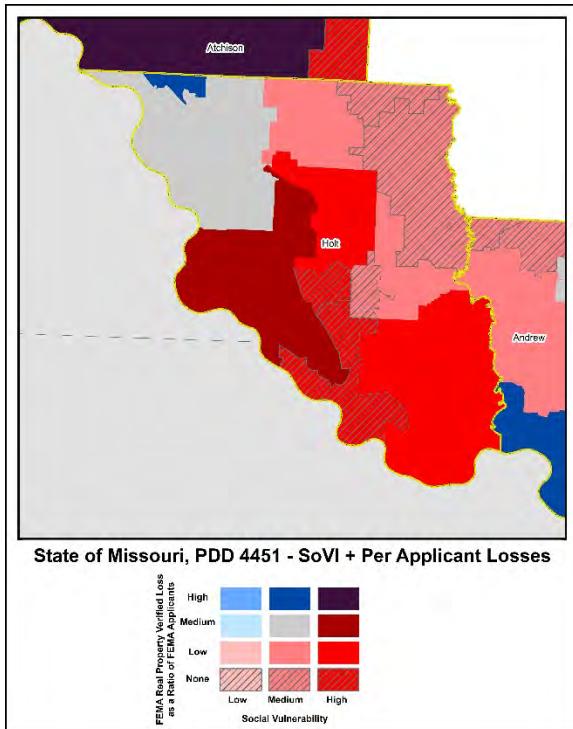


Figure 4. Bivariate Overlay of Damaged Housing Units & Social Vulnerability – Holt County.

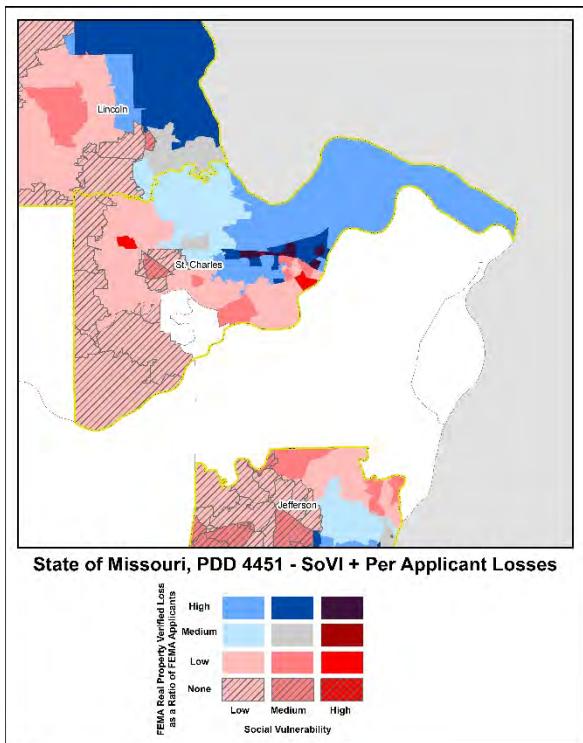


Figure 5. Bivariate Overlay of Damaged Housing Units & Social Vulnerability – St. Charles County.

Unmet Needs Assessment

Demographic Profile of the Impacted Area

Table 8, below, shows a breakdown of socioeconomics and demographics for Cole, Holt, and St. Charles Counties. Appendix B: DR-4451, County Demographic Profiles provides demographic profiles for all declared counties in Missouri. While many community characteristics across the impact area are similar to state trends and percentages, there are a few specific socio-demographic differences that should be addressed as a fuller discussion of unmet needs is created. Less than 7.9 percent of Missouri's population resides in the impacted areas of Cole, Holt, and St. Charles counties covered in this assessment. The population in the impacted area differs from the statewide population in several key areas.

First, the impacted areas of Cole and St. Charles counties have a much lower percentage of people living in poverty (8.9% and 5.7%, respectively) than the state (13.2%), and Holt County is slightly above the state average (13.3%). This poverty is a primary indicator of places that might see greater impacts from disasters because of a general lack of ability to prepare for shocks and stresses and may provide an indicator of resiliency where poverty is lower. While Cole and St. Charles counties have populations of residents over the age of 65 that is near the state average of 16.9%, Holt County has a significantly higher population of older residents (25.1%). Notably, Holt County's median home value is significantly less than the state average, and there are fewer residents holding a bachelor's degree in the county compared to the state

average. Both Cole and St. Charles counties have more residents with bachelor's degrees than the state average, and the median home value is also higher than the state average in both of these counties. Similarly, Cole and St. Charles counties have fewer residents with disabilities than the state average, but Holt County is higher than the statewide average at 12.1%. St. Charles County has fewer Black or African American residents than the state average (16.9%), and Holt County has significantly fewer Black or African Americans at 0.4%. Holt County also has a lower-than-state-average number of residents in the civilian labor force. Taken together, these data indicate that when compared to the state as a whole, there is a higher relative concentration of individuals with vulnerabilities that influence how they respond to disaster events and will decrease their speed of recovery.

Table 8. Demographic Profile Information for MID Counties - American Community Survey Data, 2019 Release

People	United States	Missouri	Cole County	Holt County	St. Charles County
<i>Population estimates, July 1, 2019</i>	328,239,523	6,137,428	76,745	4,403	402,022
<i>Persons under 5 years, percent, July 1, 2018</i>	6.10%	6.10%	6.00%	5.20%	5.90%
<i>Persons 65 years and over, percent, July 1, 2018</i>	16.00%	16.90%	16.60%	25.10%	15.20%
<i>White alone, percent, July 1, 2018</i>	76.50%	83.00%	83.70%	96.80%	89.90%
<i>Black or African American alone, percent, July 1, 2018</i>	13.40%	11.80%	12.40%	0.40%	5.10%
<i>American Indian and Alaska Native alone, percent, July 1, 2018</i>	1.30%	0.60%	0.40%	1.20%	0.20%
<i>Asian alone, percent, July 1, 2018</i>	5.90%	2.10%	1.40%	0.40%	2.70%
<i>Two or More Races, percent, July 1, 2018</i>	2.70%	2.30%	2.00%	1.20%	2.00%
<i>Hispanic or Latino, percent, July 1, 2018</i>	18.30%	4.30%	2.90%	1.30%	3.40%
<i>Foreign born persons, percent, 2014-2018</i>	13.50%	4.10%	3.00%	0.90%	4.00%
<i>Housing units, July 1, 2018</i>	138,537,078	2,806,371	33,508	2,795	156,324
<i>Owner-occupied housing unit rate, 2014-2018</i>	63.80%	66.80%	67.50%	72.00%	80.40%
<i>Median value of owner-occupied housing units, 2014-2018</i>	\$204,900	\$151,600	\$160,300	\$96,100	\$208,900
<i>Median gross rent, 2014-2018</i>	\$1,023	\$809	\$635	\$457	\$1,024
<i>Building permits, 2018</i>	1,328,827	16,875	171	Suppressed	2,326
<i>Households, 2014-2018</i>	119,730,128	2,396,271	29,749	2,056	144,643
<i>Persons per household, 2014-2018</i>	2.63	2.47	2.42	2.11	2.64
<i>Language other than English spoken at home, Percent 5 years+, 2014-2018</i>	21.50%	6.10%	4.30%	1.20%	5.90%
<i>High school graduate or higher, percent of persons age 25 years+, 2014-2018</i>	87.70%	89.60%	91.90%	90.90%	94.70%

<i>Bachelor's degree or higher, percent of persons age 25 years+, 2014-2018</i>	31.50%	28.60%	32.90%	19.80%	37.80%
<i>With a disability, under age 65 years, percent, 2014-2018</i>	8.60%	10.40%	8.20%	12.10%	6.70%
<i>Persons without health insurance, under age 65 years, percent</i>	10.00%	11.20%	10.10%	13.20%	6.20%
<i>Per Capita health care and social assistance receipts/revenue, 2017 (\$1,000)</i>	6,216	6,532	9,273	Suppressed	3,689
<i>In civilian labor force, total, percent of population age 16 years+, 2014-2018</i>	62.90%	62.60%	63.80%	59.00%	70.10%
<i>Median household income (in 2015 dollars), 2014-2018</i>	\$60,293	\$53,560	\$57,587	\$45,610	\$81,411
<i>Per capita income in past 12 months (in 2015 dollars), 2014-2018</i>	\$32,621	\$29,537	\$29,433	\$25,517	\$37,229
<i>Persons in poverty, percent</i>	11.80%	13.20%	8.90%	13.30%	5.70%

Impact on Low-and-Moderate-Income Populations

All programs supported by HUD Community Development Block Grant for Disaster Recovery (CDBG-DR) assistance must demonstrate benefit to individuals and communities by meeting one of the program's three National Objectives for all money spent on projects. These are: (1) benefiting low and moderate income (LMI) persons, (2) aiding in the prevention or elimination of slums or blight, or (3) meeting a need having particular urgency (urgent need)³⁰ - Table 9.

Low to moderate income households are defined as households that do not exceed 80% of the median income for their area, as determined by HUD. These income categories are grouped into the following classifications:³¹

- **Very low income** – has an annual income at 30% or below the area median income
- **Low income** – has an annual income at 31% to 50% of the area median income; and
- **Moderate income** – has an annual income at 51% to 80% of the area median income.

³⁰ These National Objective definitions and corresponding language are set by HUD regulation.

³¹ The term "Low-and-Moderate Income" is defined in the Housing and Community Development Act of 1974 as: The terms "persons of low and moderate income" and "low and moderate income persons" mean families and individuals whose incomes do not exceed 80 percent of the median income of the area involved, as determined by the Secretary with adjustments for smaller and larger families. The term "persons of low income" means families and individuals whose incomes do not exceed 50 percent of the median income of the area involved, as determined by the Secretary with adjustments for smaller and larger families. The term "persons of moderate income" means families and individuals whose incomes exceed 50 percent, but do not exceed 80 percent, of the median income of the area involved, as determined by the Secretary with adjustments for smaller and larger families.

For the purpose of CDBG-Disaster Recovery programs, Grantees apply the below terminology consistent with the original language of the Housing Act and reporting designations in the HUD Disaster Recovery Grant Reporting (DRGR) system.³²

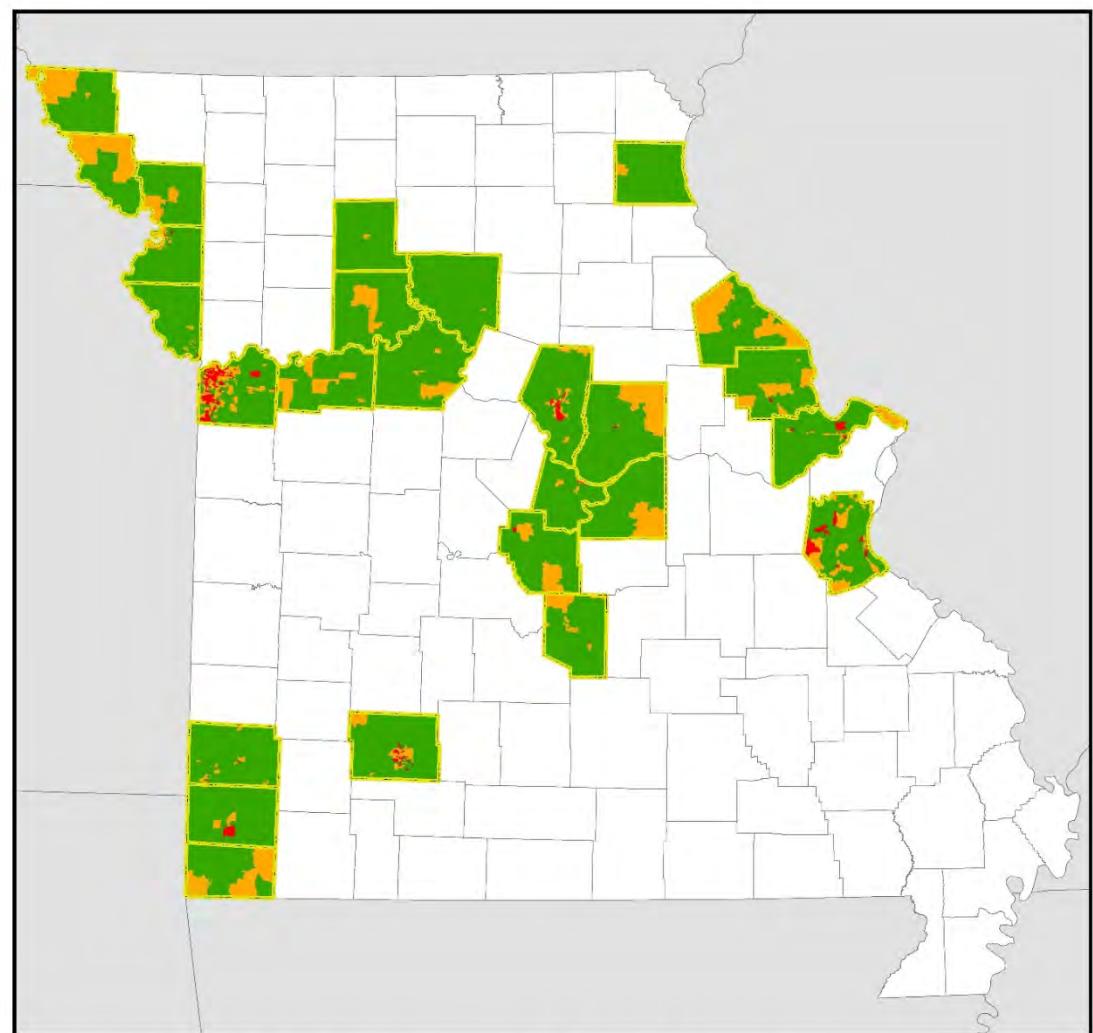
Table 9. HUD LMI Classifications

Household Area Median Income	Classification/Terminology	Reporting Designation in DRGR
0%-30%	Very Low Income	Low Income
31%-50%	Low Income	Low Income
51%-80%	Moderate Income	Moderate Income
81% or Higher	Above LMI	Urgent Need

Please refer to Appendix C: DR-4451 County Low-Moderate Income Limits for 2016 Area Median Income Limits by Family Size and County, and Appendix D for Detailed County LMI Maps.

Many of the counties in the impacted area have relatively high rates of low-and-moderate income (LMI) populations (Figure 6). Overall, the average LMI rate for counties across the state-impacted area was approximately 69.05%. Every presidentially declared IA county is above the state average (46.04%) for LMI populations. Table 10 illustrates the average LMI percentage across all block groups in any county and the maximum LMI of any single block group within that county. What becomes clear when looking at the maximum LMI values is that every county has at least one area characterized by very low-income levels. When block group populations are examined, additional LMI concentrations within each county become apparent, as illustrated in the map above. Detailed LMI maps of each presidentially declared Individual Assistance county with heavy impacts are show in (Figures 7 - 9) below. Parts of Cole County, specifically the Jefferson City area, and parts of St. Charles County have particular high LMI groups.

³²HUD Program Income Limits are published annually for use across all HUD funded program and contain incongruous terminology to the Housing Act. Terminology published in the annual income limits is applied to other HUD funded formula allocation programs to support individual income group targets within the LMI category: <https://www.huduser.gov/portal/datasets/il.html>



State of Missouri, PDD 4451 - Social Vulnerability

% Low Moderate Income Population

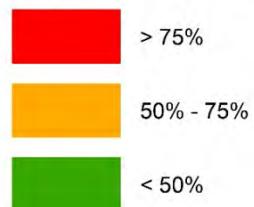


Figure 6. Low- to Moderate Income by Block Group for IA Declared Counties

Table 10. DR-4451 - Low- to Moderate Income Summary for Impacted Counties

County	Total Block Groups	Count of > 50% LMI Block Groups	Minimum LMI % in Block Group	Maximum LMI % in Block Group	Average LMI % in Block Group
<i>Cole</i>	54	13	53.73%	96.88%	73.86%
<i>Holt</i>	6	2	51.16%	54.13%	52.65%
<i>St. Charles</i>	169	27	50.32%	97.77%	62.92%
<i>Andrew</i>	14	3	50.49%	53.39%	52.13%
<i>Atchison</i>	7	2	52.89%	54.12%	53.51%
<i>Boone</i>	87	44	50.20%	100.00%	73.22%
<i>Buchanan</i>	72	28	50.26%	85.95%	63.87%
<i>Callaway</i>	34	6	51.44%	79.82%	59.46%
<i>Carroll</i>	11	3	51.48%	60.29%	56.37%
<i>Chariton</i>	9	1	61.69%	61.69%	61.69%
<i>Greene</i>	167	75	50.27%	96.97%	70.34%
<i>Jackson</i>	548	333	50.26%	100.00%	72.92%
<i>Jasper</i>	94	31	50.32%	97.30%	63.41%
<i>Jefferson</i>	129	41	50.24%	94.19%	63.63%
<i>Lafayette</i>	30	12	52.59%	73.02%	62.62%
<i>Lewis</i>	11	2	53.62%	54.81%	54.22%
<i>Lincoln</i>	26	7	50.34%	75.27%	60.28%
<i>Livingston</i>	11	2	54.46%	64.01%	59.24%
<i>McDonald</i>	17	4	50.15%	62.86%	57.02%
<i>Miller</i>	21	6	50.32%	81.92%	66.60%
<i>Newton</i>	45	10	50.48%	81.65%	59.64%
<i>Osage</i>	11	2	57.36%	57.69%	57.53%
<i>Pike</i>	17	7	50.36%	68.79%	55.61%
<i>Platte</i>	63	13	52.36%	82.54%	61.39%
<i>Pulaski</i>	29	8	51.64%	77.11%	60.66%
<i>Saline</i>	24	6	51.56%	62.61%	56.79%
<i>Grand Total</i>	1,706	688	50.15%	100.00%	69.05%

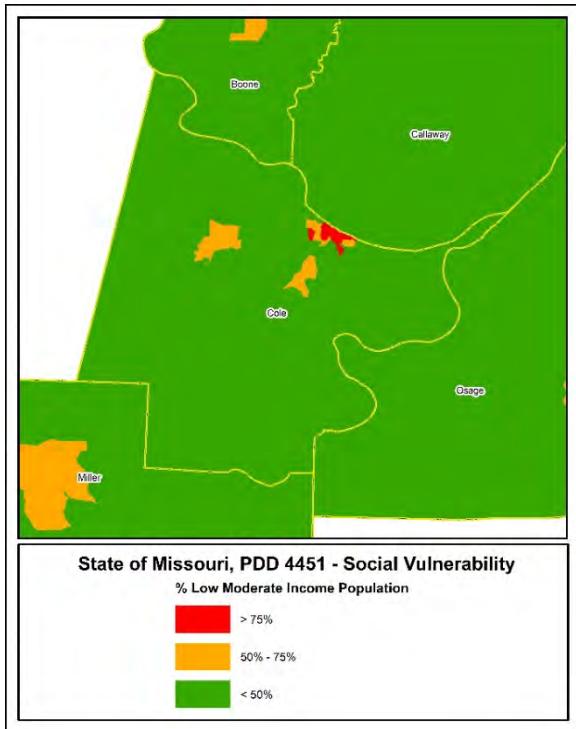


Figure 7. Low- to Moderate Income by Block Group – Cole County

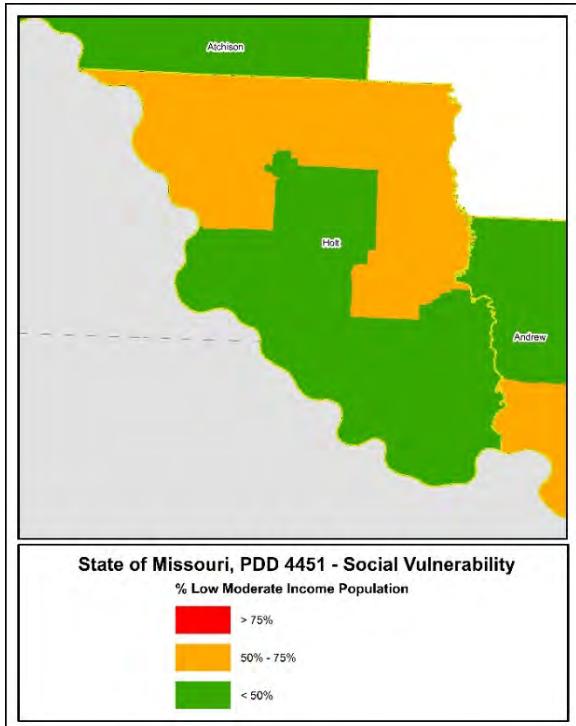


Figure 8. Low- to Moderate Income by Block Group – Holt County

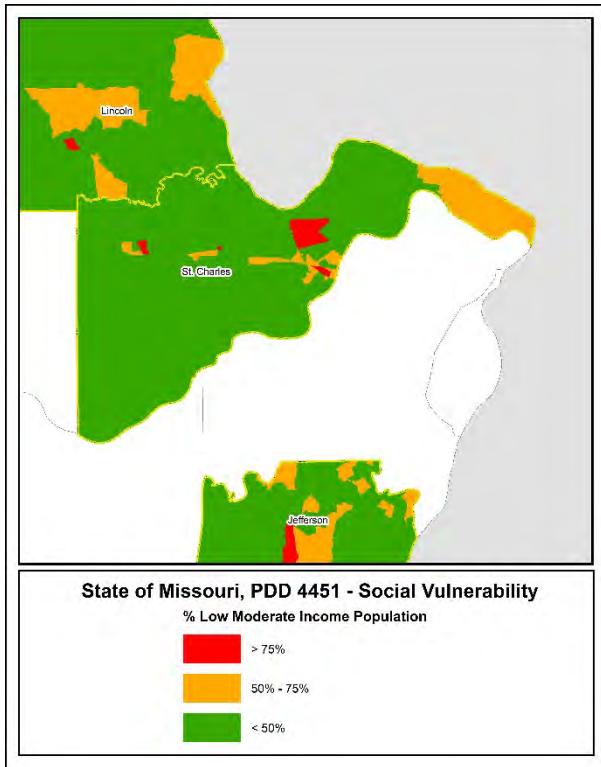


Figure 9. Low- to Moderate Income by Block Group – St. Charles County

Impact on Special Needs Populations

Individuals with access and functional needs will require assistance with accessing and/or receiving disaster resources. These individuals could be children, older adults, pregnant women, transportation disadvantaged, homeless, have chronic medical disorders, and/or a pharmacological dependency. They could have disabilities, live in institutions, have limited English proficiency. ³³

Specialized resources may include, but are not limited to social services, accommodations, information, transportation, or medications to maintain health. Regardless of the nature of the need, care must be taken to ensure that all individuals are able to access disaster recovery resources.

According to U.S. Census data, approximately 4.44% and 6.41% of the population in Cole and St. Charles counties, respectively, speaks a language other than English at home and does not understand English well, with McDonald (15.44%), Pulaski (11.42%), Saline (10.99%), and Jackson (10.32%) counties having the highest relative percent of the population speaking different languages and not understanding English

³³ US Dept. of Health and Human Services, Office of the Assistant Secretary for Preparedness and Response, “Public Health Emergency” – <http://www.phe.gov/Preparedness/planning/abc/Pages/atrisk.aspx>

well.³⁴ Outreach and Marketing for the Action Plan will take careful consideration of the language needs of these populations (see the sections on Outreach and Citizen Participation for more information).

The map below shows concentrations of limited English by census tract (Figure 10) followed by a (Table 11) that shows the number of residents who speak only English or who speak Spanish or other languages, by county. Notably, of the three most impacted counties, St. Charles has several pockets of higher concentrations of residents who limited English proficiency (Figures 11 - 13). Appendix E: DR-4451 County English Proficiency contains detailed maps of English proficiency for the declared counties.

³⁴Source: ACS (2013-2017): https://data.census.gov/cedsci/table?g=0400000US29.050000&y=2017&d=ACS%205-Year%20Estimates%20Detailed%20Tables&t=Language%20Spoken%20at%20Home&tid=ACSDT5Y2017.C16001&hidePreview=false&cid=B06007_001E&vintage=2017

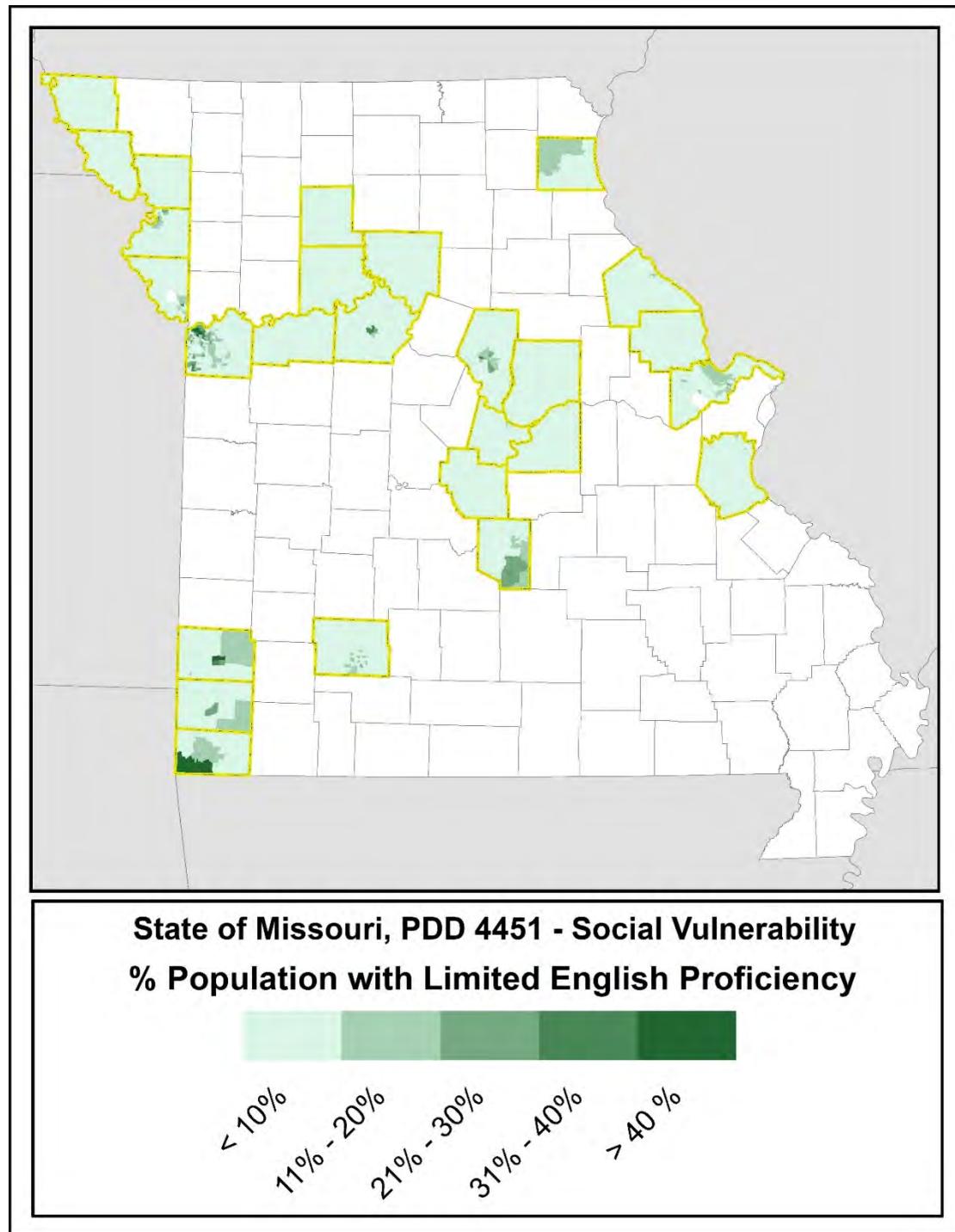


Figure 10: Percent population speaking English "not well" or not at all by census tract

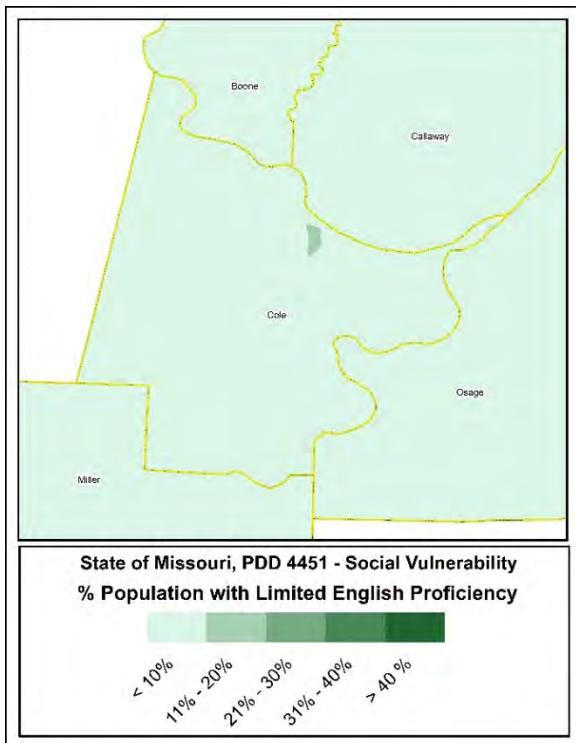


Figure 11: Percent population speaking English "not well" or not at all by census tract – Cole County

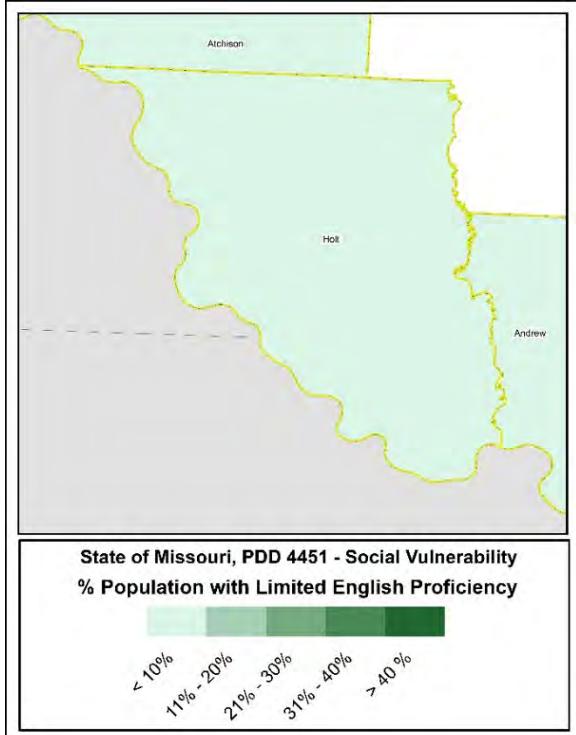


Figure 12: Percent population speaking English "not well" or not at all by census tract – Holt County

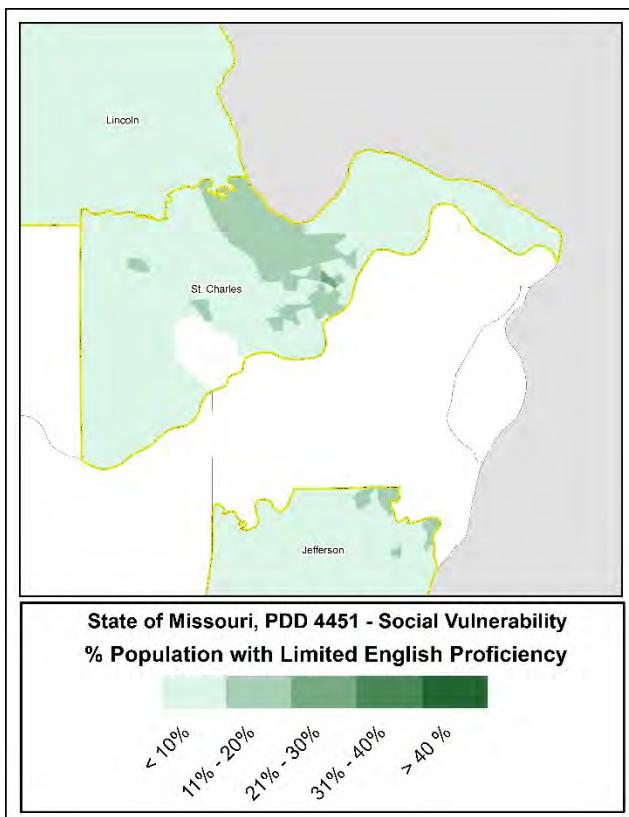


Figure 13: Percent population speaking English "not well" or not at all by census tract – St. Charles County

Table 11. DR-4451, Language Spoken at Home and Ability to Speak English for Persons 5 Years and Older³⁵

County	Total Population	Total Speaking English Only at home	% Speaking English Only at home	Speaking language other than English at home		% Speaking a Different Language at home and English "Less than Very Well"	
				Total	% Speaking a Different Language at home	Spanish	Another Language
Cole	72,103	69,041	95.75%	3,062	4.44%	0.45%	0.60%
Holt	4,255	4,221	99.20%	34	0.81%	0.00%	0.33%
St. Charles	361,383	339,623	93.98%	21,760	6.41%	0.70%	0.76%
Adair	24,242	22,794	94.03%	1,448	5.97%	0.13%	1.89%
Andrew	16,417	16,079	97.94%	338	2.10%	0.05%	0.07%
Atchison	5,055	5,001	98.93%	54	1.08%	0.00%	0.85%

³⁵ https://data.census.gov/cedsci/table?g=0400000US29.050000&y=2017&d=ACS%205-Year%20Estimates%20Detailed%20Tables&t=Language%20Spoken%20at%20Home&tid=ACSDT5Y2017.C16001&hidePreview=false&cid=B06007_001E&vintage=2017

<i>Boone</i>	164,186	151,816	92.47%	12,370	8.15%	0.41%	2.06%
<i>Buchanan</i>	83,661	78,779	94.16%	4,882	6.20%	1.58%	1.33%
<i>Callaway</i>	42,339	41,367	97.70%	972	2.35%	0.46%	0.42%
<i>Carroll</i>	8,368	8,178	97.73%	190	2.32%	0.27%	0.61%
<i>Chariton</i>	7,107	7,044	99.11%	63	0.89%	0.11%	0.42%
<i>Greene</i>	269,246	255,784	95.00%	13,462	5.26%	0.63%	1.01%
<i>Jackson</i>	641,819	581,661	90.63%	60,158	10.34%	2.50%	1.14%
<i>Jasper</i>	110,176	102,253	92.81%	7,923	7.75%	2.24%	0.61%
<i>Jefferson</i>	209,036	203,461	97.33%	5,575	2.74%	0.25%	0.41%
<i>Lafayette</i>	30,836	29,998	97.28%	838	2.79%	0.81%	0.33%
<i>Lewis</i>	9,515	9,123	95.88%	392	4.30%	0.19%	0.91%
<i>Lincoln</i>	51,168	50,227	98.16%	941	1.87%	0.68%	0.08%
<i>Livingston</i>	14,140	13,868	98.08%	272	1.96%	0.00%	0.64%
<i>McDonald</i>	21,224	18,379	86.60%	2,845	15.48%	4.85%	2.43%
<i>Miller</i>	23,354	22,988	98.43%	366	1.59%	0.34%	0.27%
<i>Newton</i>	54,607	51,245	93.84%	3,362	6.56%	1.40%	1.14%
<i>Osage</i>	12,850	12,592	97.99%	258	2.05%	0.14%	0.68%
<i>Pike</i>	17,403	16,681	95.85%	722	4.33%	0.58%	0.61%
<i>Platte</i>	90,850	84,092	92.56%	6,758	8.04%	0.58%	1.96%
<i>Pulaski</i>	49,434	44,366	89.75%	5,068	11.42%	1.83%	1.23%
<i>Saline</i>	21,560	19,425	90.10%	2,135	10.99%	3.16%	1.34%
<i>Grand Total</i>	2,416,334	2,260,086	93.53%	156,248	6.41%	1.98%	0.99%

Being over the age of 65 or having children under the age of 5 contributes to the potential vulnerability of a household. The map below (Figures 14 - 17) shows concentrations of households with age dependent populations, by census tract. Concentrations of age dependent populations are noticeable in parts of Cole County, particularly Jefferson City, as well as in parts of St. Charles County. APPENDIX F provides maps for all IA declared counties.

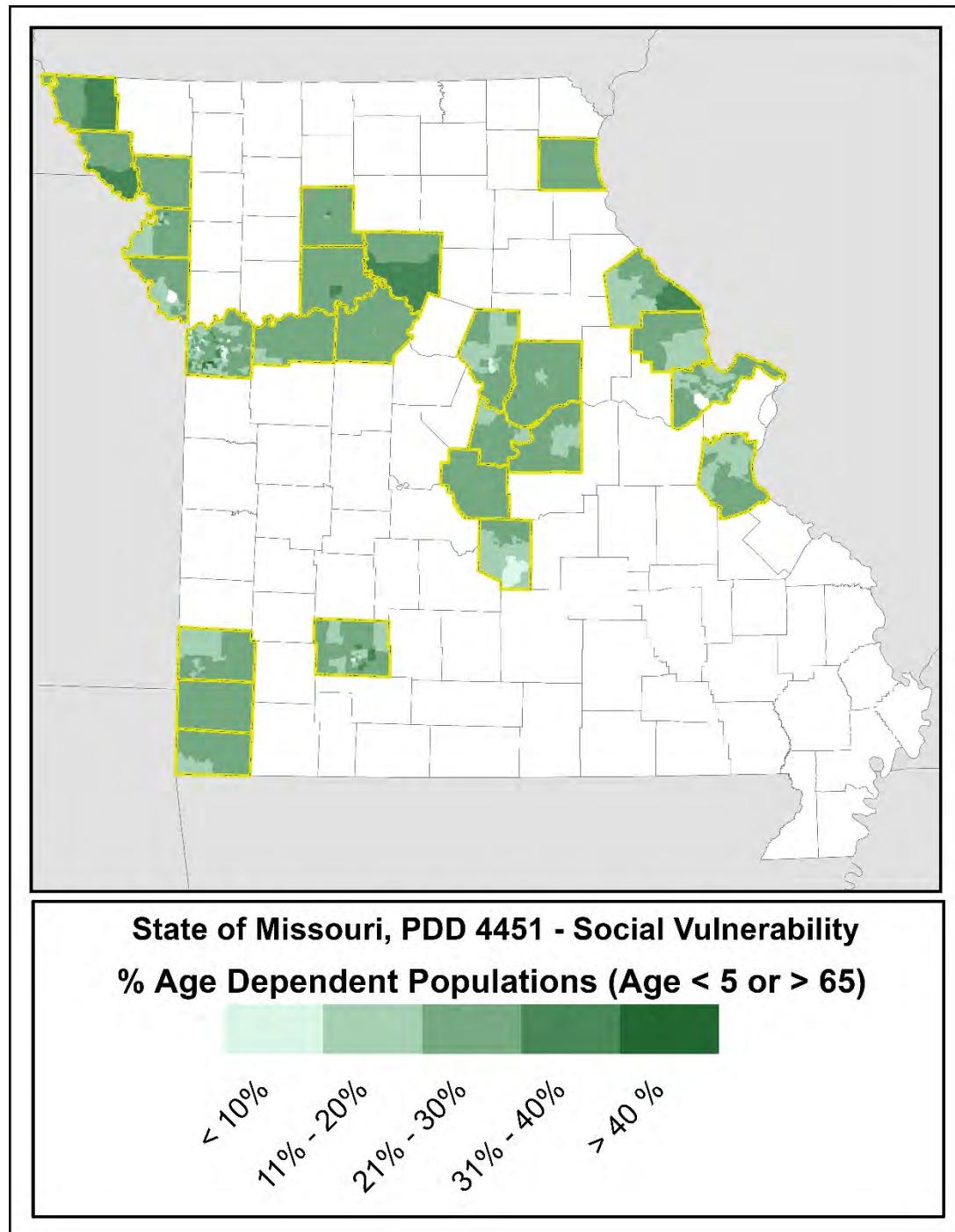


Figure 14. Percent population characterized as “age dependent” (Age < 5 or > 65) by census tract

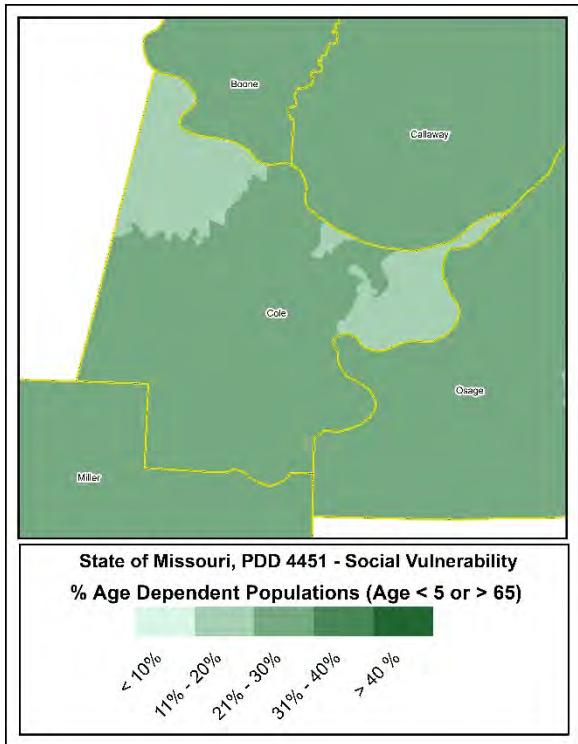


Figure 15: Percent population characterized as “age dependent” (Age < 5 or > 65) by census tract – Cole County

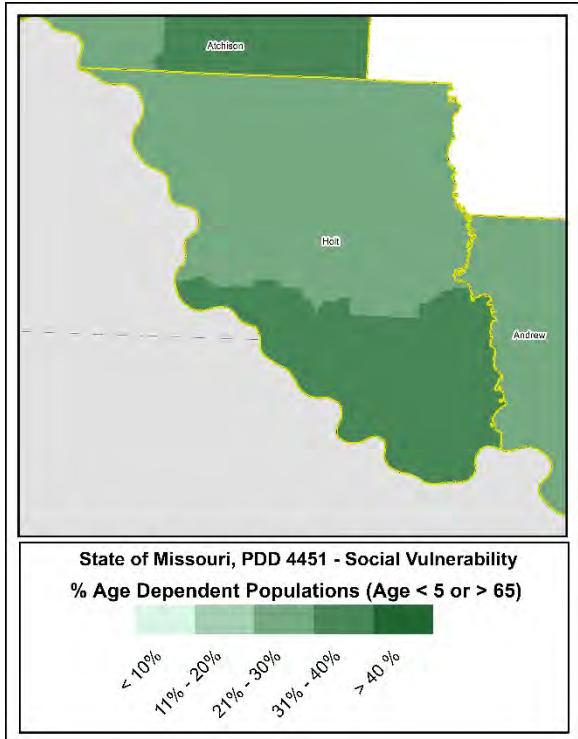


Figure 16: Percent population characterized as “age dependent” (Age < 5 or > 65) by census tract – Holt County

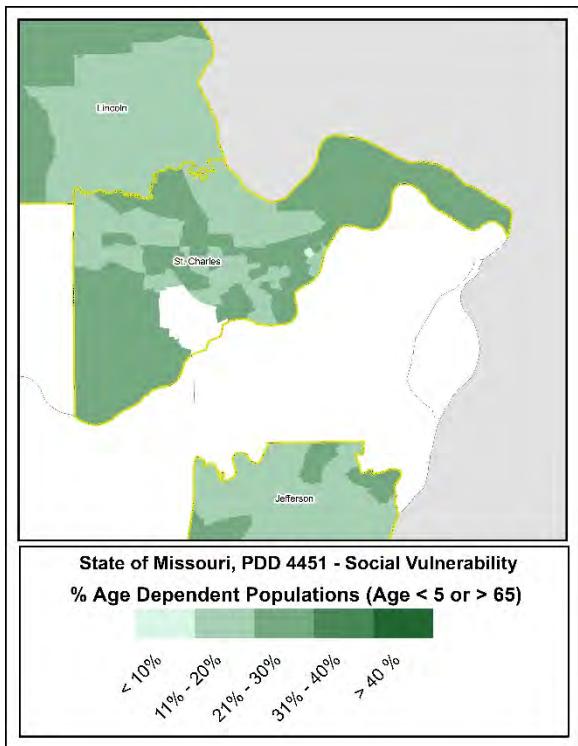


Figure 17: Percent population characterized as “age dependent” (Age < 5 or > 65) by census tract – St. Charles County

Additionally, Social Vulnerability considers the percentage of the population living below poverty level. The map below (Figures 18 - 21) shows relative concentrations of poverty in the declared counties, with higher concentrations in Jackson, Boone, and Greene counties. Notably, Cole and St. Charles counties have some pockets of concentrated populations living below the poverty level. Figures 22 - 25 show larger concentrations of unemployment across the region. The maximum unemployment rate in the state is 50% and across the impacted counties the rate is generally 11 – 20% with few instances of higher unemployment.

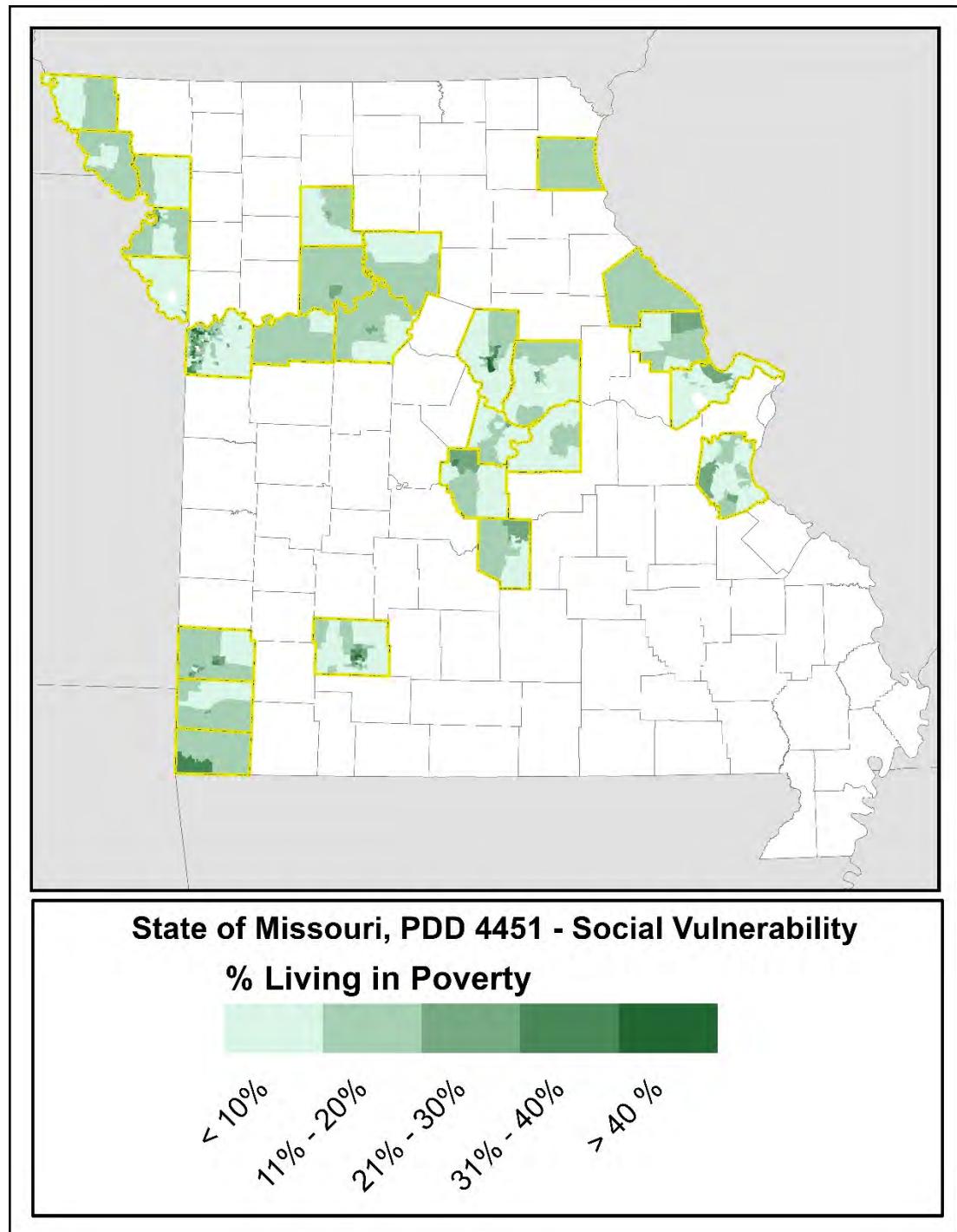


Figure 18:

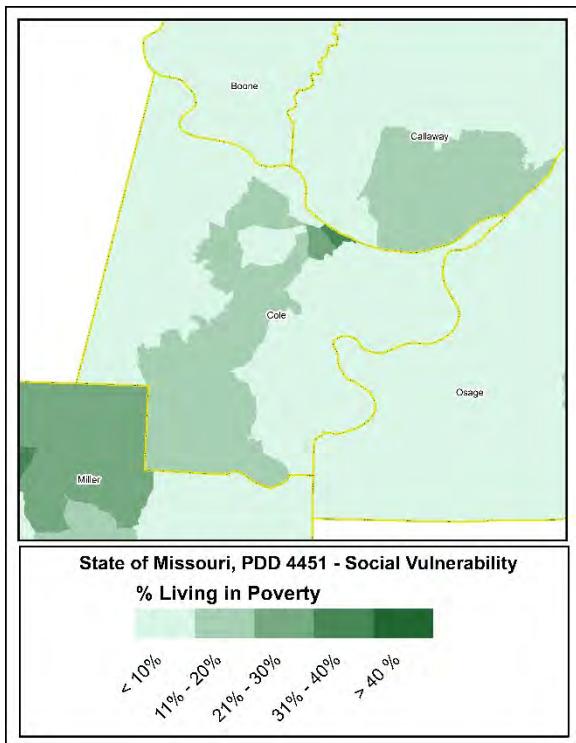


Figure 19: Percent persons living in poverty by census tract – Cole County

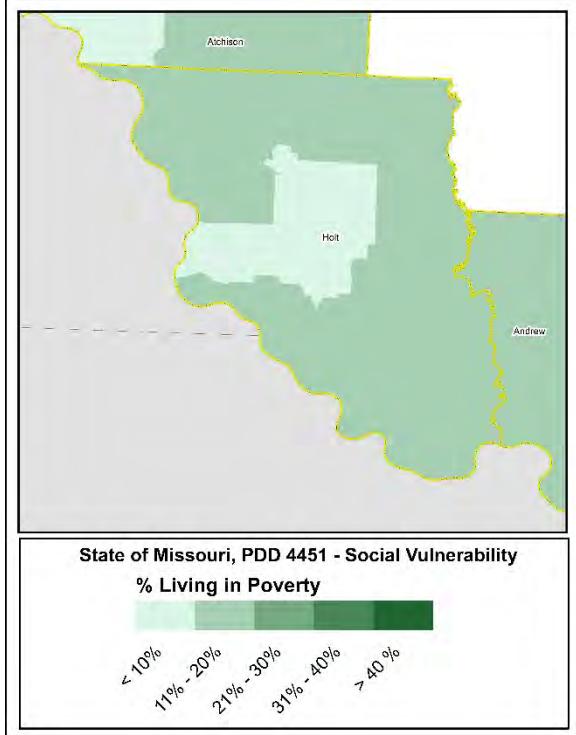


Figure 20: Percent persons living in poverty by census tract – Holt County

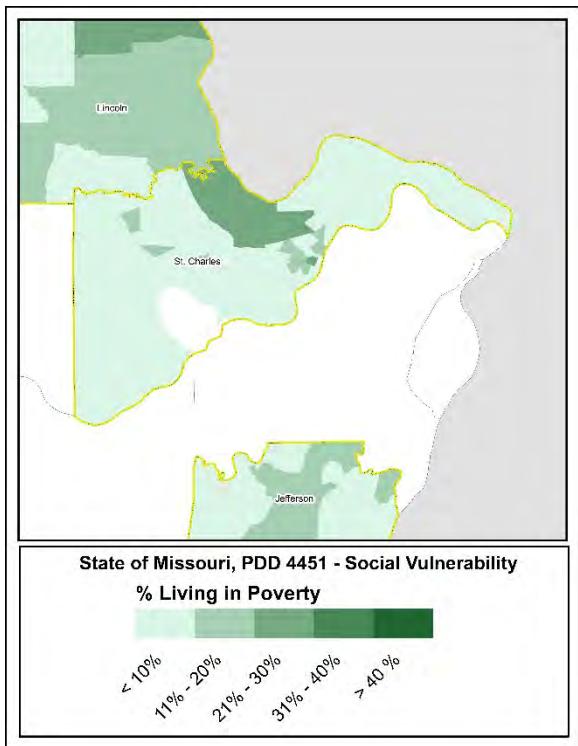


Figure 21. Percent persons living in poverty by census tract – St. Charles County

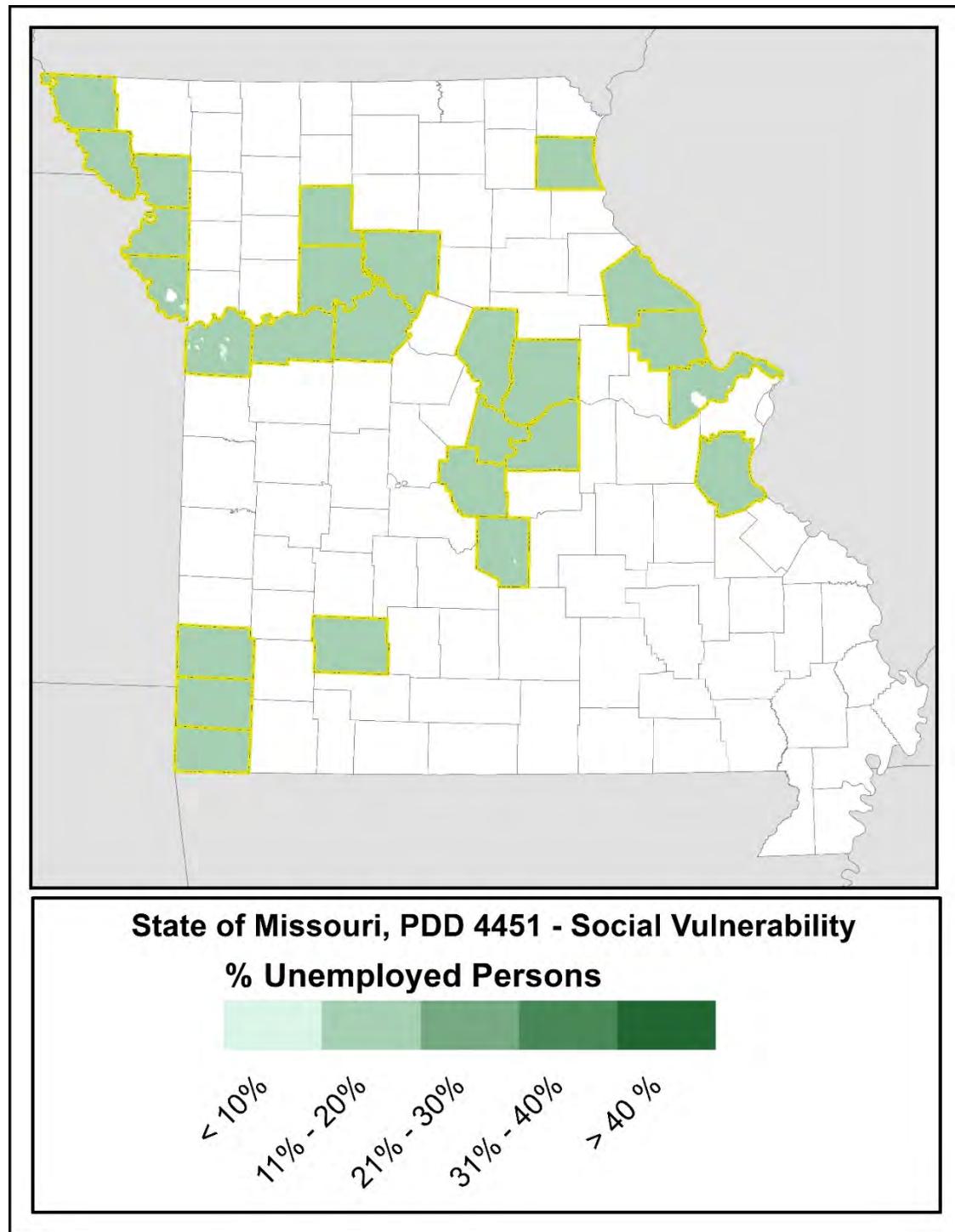


Figure 22. Percent of unemployed persons by census tract

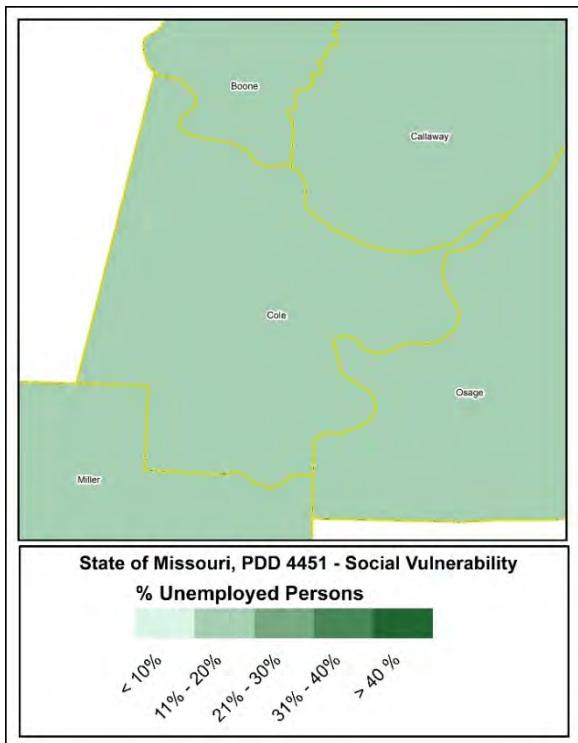


Figure 23. Percent unemployment poverty by census tract – Cole County

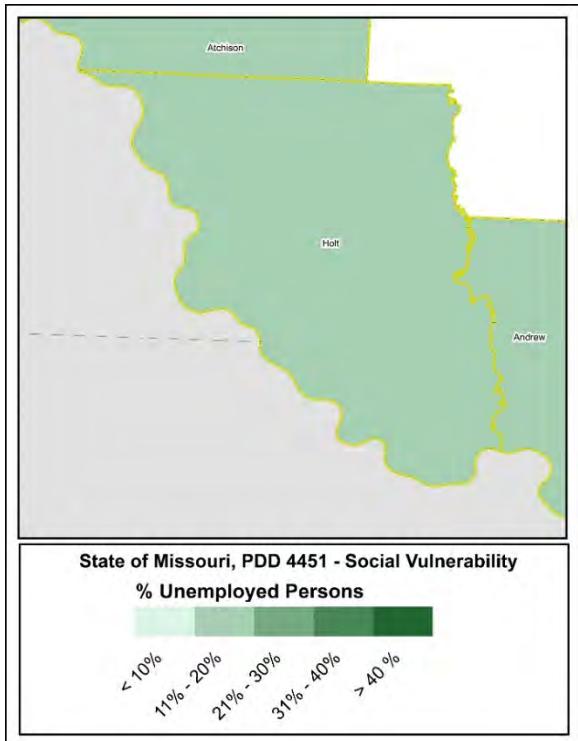


Figure 24. Percent unemployment poverty by census tract – Holt County

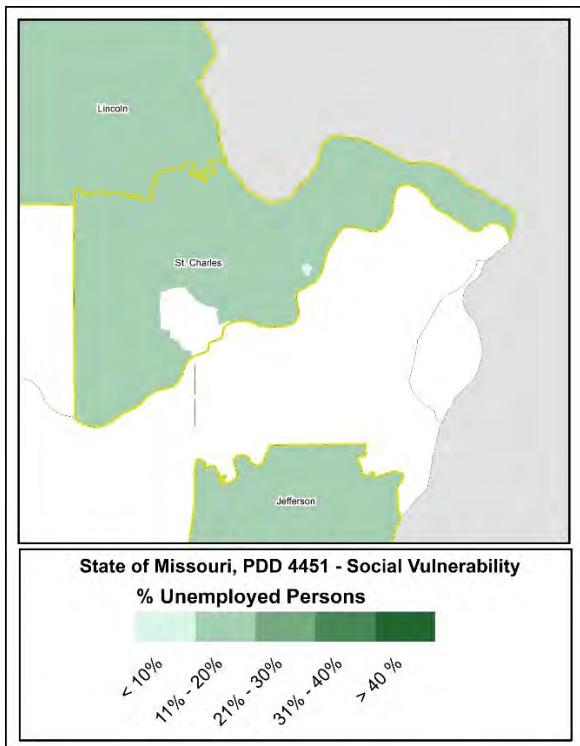


Figure 25. Percent unemployment poverty by census tract – St. Charles County

Transitional Housing/Homelessness

The multiple threats from flooding, tornadoes, powerful straight-line winds, and torrential rains in Missouri in 2019 impacted community members across all walks of life. While some may lose homes, others affected may be without homes both prior and following an event of such magnitude. In fact, homeless persons may be faced with even more adversity as others become displaced and shelters become more overcrowded. According to a 2019 Point-In-Time report from the Missouri Housing Development Commission, federally mandated by HUD, there were 5,883 homeless people in Missouri in 2018, a 2% decrease from 2017.³⁶ Of the 5,883 homeless, approximately 2,107 are families, and about 21% of the homeless are considered to be unsheltered. Homelessness is experienced by more males (56%) than females (44%), and more whites experience homelessness (53%) than blacks (40%) and other races (7%). About 1,043 people (18%) who experienced homelessness in Missouri in 2018 were chronically homeless.

Emergency Shelters

Displaced residents, impacted by tornadoes, and evacuations ordered for Missouri's floodplain residents filled hotels, motels, homes of friends and families, as well as public shelters across the state. The Missouri Chapter of the American Red Cross operated eight (8) shelters throughout the state at the peak of

³⁶ http://www.mhdc.com/ci/Missouri%20Homelessness%20Study_Final_11.18.19.pdf

sheltering needs in mid-June 2019.³⁷ The State along with various churches, charitable groups, and schools stepped up quickly to help their fellow Missourians. In total, 130 shelters in 33 counties housed an average of 775 people per night and a maximum of 6,148 people in any one night.

Enhanced Focus on Vulnerable Populations

Missouri is taking a cutting-edge approach to its disaster recovery process by assessing social vulnerability as part of its recovery strategy. A social vulnerability index utilizing the most recent census data (2014-2018) measures the social vulnerability of all census tracts with population in the PDR-4451 area of interest. The index is a comparative metric facilitating examination of differences in social vulnerability across census tracts, the building blocks of counties. It graphically illustrates the variation in social vulnerability across the DR-4451 impact area, shows where there is uneven capacity for preparedness and response, and helps pinpoint where resources might be used most effectively to reduce the pre-existing vulnerability and encourage recovery. Utilizing social vulnerability is also useful as an indicator in determining the differential recovery from disasters. The social vulnerability index synthesizes socioeconomic variables, which the research literature suggests contributes to reduction in a community's ability to prepare for, respond to, and recover from hazards. An outline of the variables influential in vulnerability for DR-4451 Individual Assistance declared counties is shown in Table 13.

³⁷ <https://www.redcross.org/local/missouri/about-us/news-and-events/news/eight-shelters-now-open-in-missouri.html>

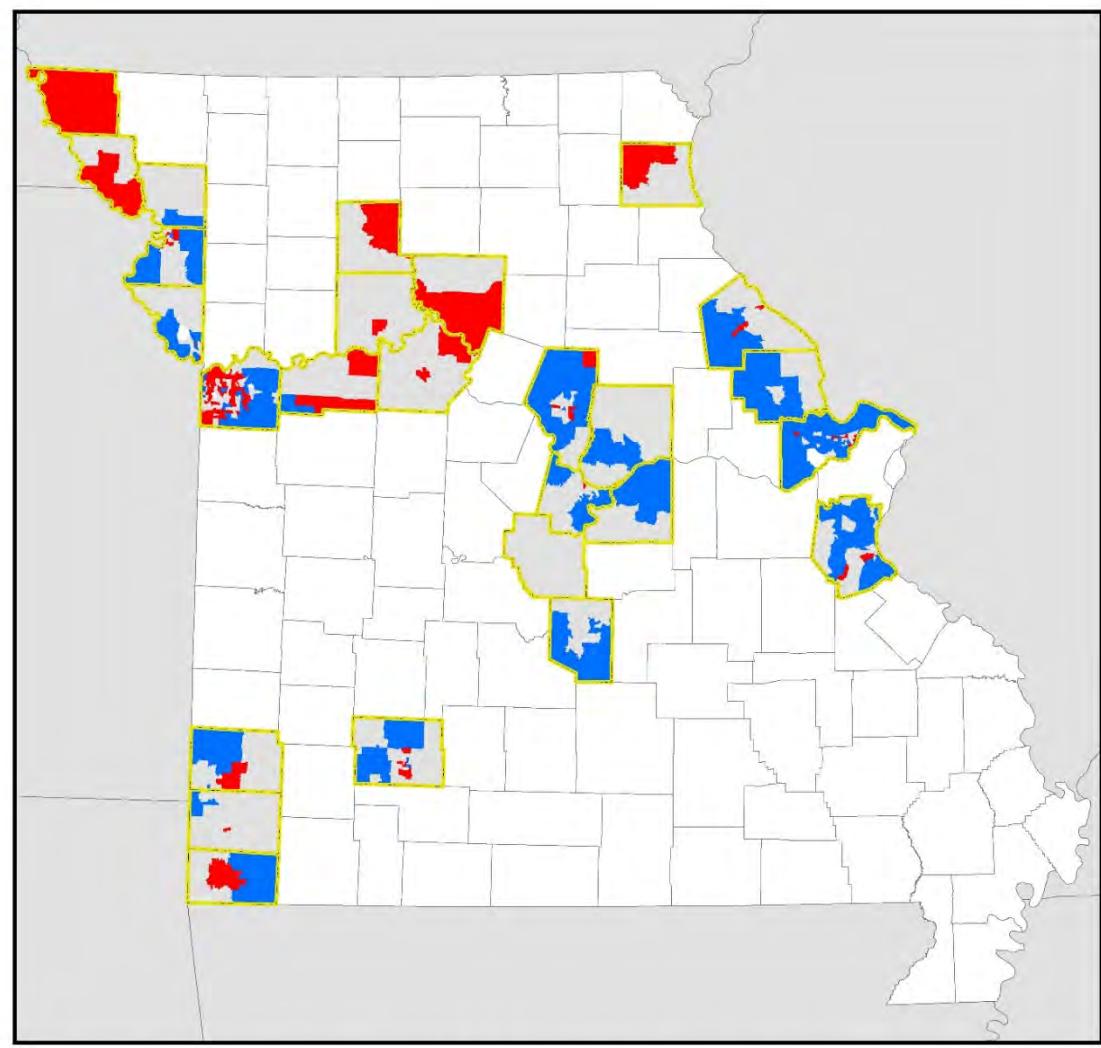
Table 13. DR 4451, Social Vulnerability Component Matrix³⁸

PDD 4451 - Missouri Tract Level 2014 - 2018 Social Vulnerability Component Summary									
Component	Cardinality	Description	% Variance Explained	Dominant Variables	Variable Component Loading				
1	+	Wealth and Poverty	15.63	PERCAP	-0.841				
				QRICH200K	-0.826				
				MHSEVAL	-0.771				
				MDGREN	-0.762				
				QCVLUN	0.404				
				UNINSURED	0.444				
				QMOHO	0.448				
				QPOVTY	0.455				
				QSERV	0.469				
				QED12LES	0.491				
2	+	Race (Black) and Single Parent Households	15.19	QFAM	-0.691				
				MHSEVAL	-0.406				
				QED12LES	0.426				
				QSERV	0.461				
				QPOVTY	0.470				
				QCVLUN	0.556				
				QFHH	0.650				
				QUNOCCHU	0.667				
				QNOAUTO	0.714				
				BLACK	0.860				
3	+	Age (Old)	11.18	QRENTER	-0.548				
				MEDAGE	0.827				
				QAGEDEP	0.854				
				QSSBEN	0.864				
4	+	Ethnicity (Hispanic)	9.92	QHISP	0.884				
				UNINSURED	0.460				
				QED12LES	0.611				
				QESL	0.881				
5	+	Gender (Female) and Housing Burden	7.74	QEXTRCT	-0.499				
				HOUSEBURDEN	0.400				
				QFHH	0.414				
				QFEMLBR	0.709				
6	+	Special Needs Populations	6.71	QFEMALE	0.796				
				QPUNIT	-0.813				
				QNOAUTO	0.417				
				QRENTER	0.558				
7	+	Race (Asian) and Lack of Insurance	4.78	QNRRES	0.600				
				UNINSURED	0.430				
Cummulative Variance Explained				QASIAN	0.829				
29 variables, tract with 0 population or 0 housing units excluded									

The Social Vulnerability Index has high utility as a decision-support tool for emergency management. The social vulnerability index metric turns historical disaster impact measures into actionable information for emergency managers, recovery planners, and decision makers as a whole. It empirically measures and visually depicts a population's (in)ability to adequately prepare for, respond to, and rebound from disaster events. Operationally, Social vulnerability assessment is now part of FEMA's Geospatial Framework, the

³⁸ Component scores and composite social vulnerability scores in the accompanying maps are relative and comparable across census tracts within DR 4451 IA declared counties of Missouri. The cardinalities of components in the accompanying shapefile have been adjusted as indicated above. The social vulnerability composite score is obtained by summing all component scores. Input data are derived from the Five-Year American Community Survey, 2014-18. Social vulnerability created using www.vulnerabilitymap.org

set of spatial products delivered automatically by FEMA upon Presidential Disaster Declaration. Figure 26 and Figure 27 (below) depict social vulnerability for the counties in DR-4451. While these provide a general understanding of social vulnerability across the DR-4451 IA counties the size of census tracts dictates a deeper look into maps of individual counties. Figures 28 - 30 provide a detailed view of social vulnerability for Cole Holt, and St. Charles Counties. APPENDIX F provides detailed social vulnerability maps for all remaining DR-4451 IA Counties. Missouri will use this assessment tool to guide actionable, expedited impact to the most vulnerable populations to be expeditious with disaster recovery.



State of Missouri, PDD 4451 - Social Vulnerability

SoVI (3 Class)

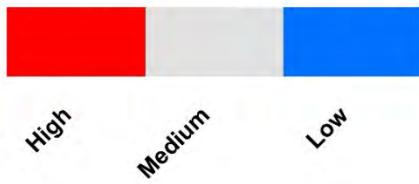


Figure 26. Tract level 3-Class Social Vulnerability Index (SoVI) for PDD 4451 IA Declared Counties

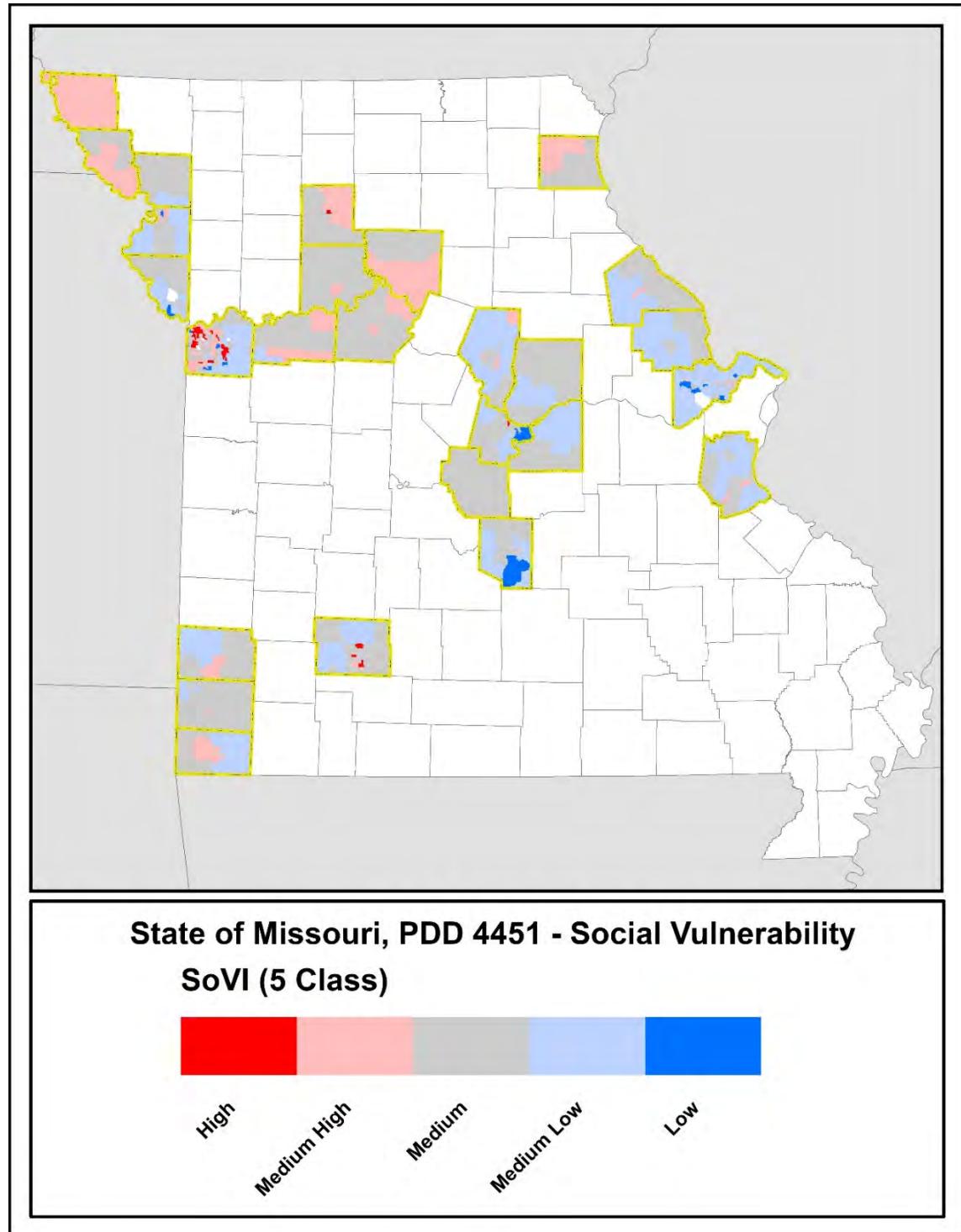


Figure 27. Tract level 5-Class Social Vulnerability Index (SoVI) for PDD 4451 IA Declared Counties

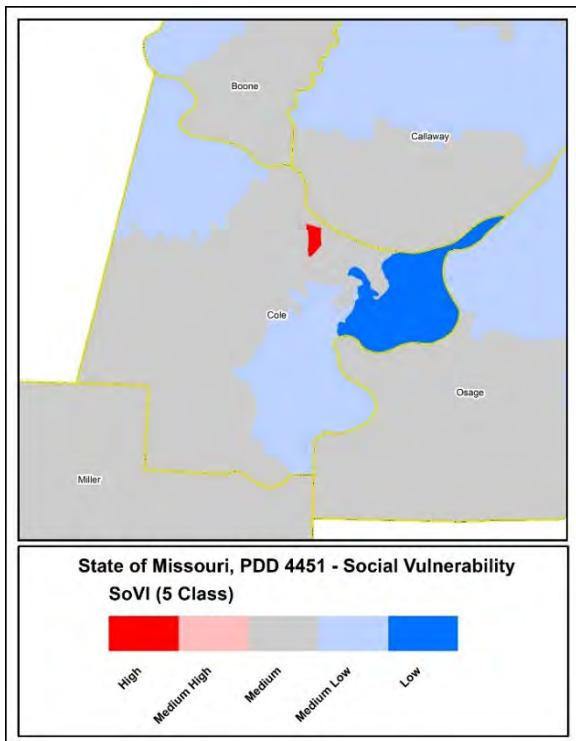


Figure 28. Tract level 5-Class Social Vulnerability Index (SoVI) for PDD 4451 – Cole County

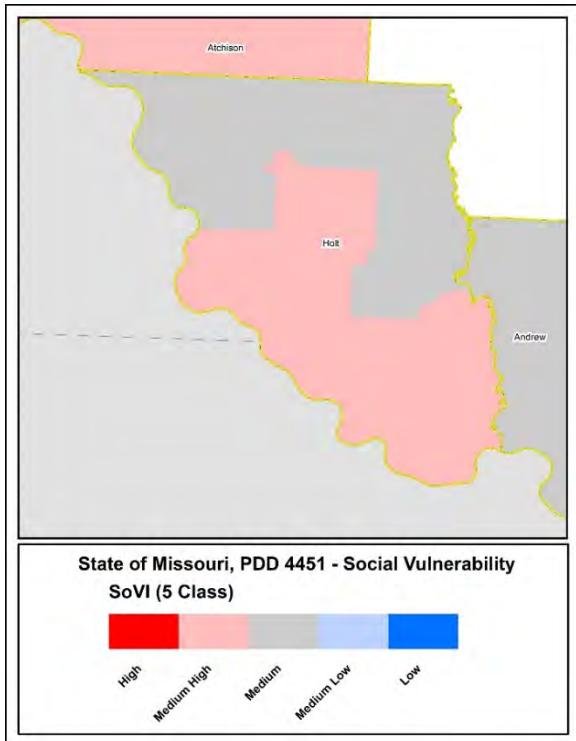


Figure 29. Tract level 5-Class Social Vulnerability Index (SoVI) for PDD 4451 – Holt County

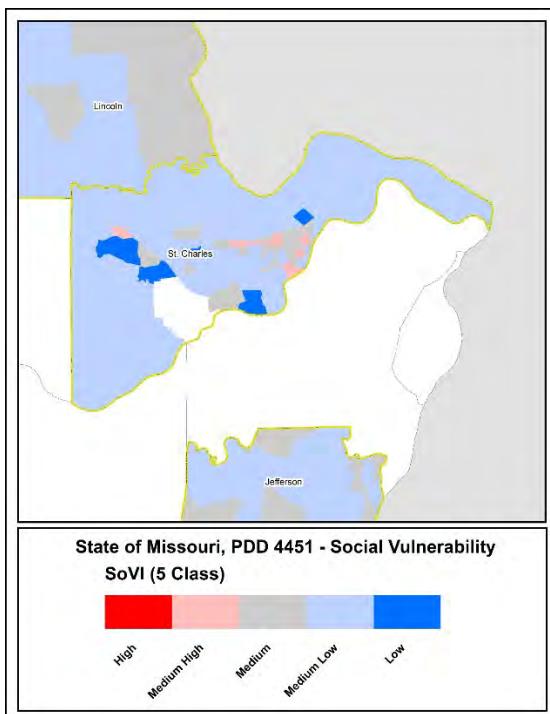


Figure 30. Tract level 5-Class Social Vulnerability Index (SoVI) for PDD 4451 – St. Charles County

Civic Engagement

Voluntary Organizations Active in Disasters (VOAD), philanthropic organizations, and faith-based organizations are often the first line of defense when it comes to community recovery. Following the devastating flooding in March and subsequent tornado and severe weather in May 2019, the citizens of Missouri pulled together to embark on the recovery process. Instead of waiting for government assistance, volunteers led the charge to assist individuals and communities with recovery efforts. Many VOADs are still onsite and working to help rebuilding efforts from the 2019 floods and severe weather. Even today, the Missouri VOAD community continues to coordinate relief efforts across numerous organizations, including multiple state agencies and federal government officials.

Immediately following the May 23 EF3 tornado, Missouri's Convoy of Hope deployed two teams to assist with damage and needs assessments. While monitoring rising floodwaters in multiple parts of the state, Convoy of Hope distributed water, food, bug spray, plastic totes, and clean-up supplies in Carl Junction, Golden City, Eldon, and Jefferson City. Working with Disaster Services and Hands of Hope, Convoy of Hope coordinated the delivery of more than 1,000 bags of groceries in Hartville, Missouri in response to a tornado there. As floodwater impacted much of the state into early June 2019, Convoy of Hope sustained its assistance, delivering two-week's worth of food rations to Hartville residents who were unable to travel to purchase groceries. As Convoy of Hope supplied totes and boxes to residents of a Jefferson City apartment complex that was destroyed by the EF3 tornado, the organization sent water to Lexington, Missouri after a water main broke due to flooding. Convoy of Hope also distributed food and relief supplies to Carl Junction and Golden City in early June 2019.³⁹

³⁹ <https://www.convoyofhope.org/blog/features/disaster-response/convoy-hope-responds-tornadoes-flooding-missouri-oklahoma/>

In similar fashion, University of Missouri Health Care pledged up to \$50,000 in financial support to survivors of the tornadoes and encouraged faculty, staff, and students to volunteer. The University of Missouri's Police Department helped monitor traffic in the damaged areas, and members of the Mizzou baseball team assisted with cleaning up the site for the Missouri Special Olympics. The University of Missouri Extension program also established a wellness and recreation center in Jefferson City to offer support to survivors.⁴⁰ Meanwhile, the Missouri Chapter of the American Red Cross (ARC) facilitated more than 490 volunteers to support eight (8) shelters for survivors of the tornadoes and floods, providing more than 1,500 overnight shelter stays for individuals and families, more than 32,200 meals and snacks, 850 health and mental health contacts, and distribution of more than 22,400 relief items.⁴¹ The ARC also hosted a Multi-Agency Resource Center (MARC) in Jefferson City to provide resources ranging from mental health to agriculture and legal services with more than 30 agencies in attendance.⁴² Lastly, the State Emergency Management Agency (SEMA) established MARCs in Jefferson City, Eldon, and Carl Junction, serving more than 600 households affected by the severe storms in Spring 2019.⁴³

These organizations, as well as countless individual volunteers, have been dedicated to providing relief services to those affected. Projects including mold remediation that will not only allow individuals to safely remain in their homes but will also allow for the completion of home rehabilitation.

Summary of Impact and Unmet Need

The Unmet Needs Assessment must evaluate the three core aspects of recovery – housing, infrastructure, and economic development. It must approximate unmet need by estimating the portion of need likely to be addressed by insurance proceeds, other federal assistance, or any other funding source by using the most recent available data.

The preliminary estimated impact from DR-4451 in Missouri is \$142,387,426 across the housing, economy, and infrastructure sectors combined. The figures provided in this assessment are based on best available data at this time and may be adjusted in the future as additional data becomes available. After considering the funds already made available through insurance, state and other federal assistance and other funds totaling more than \$33.7 million, the remaining overall unmet need is approximately \$109 million. **The federal allocation of \$30 million will allow the State to address about 28% of the remaining unmet need.**

When examining the relative need by sector (Figure 31 and Table 14), housing represents the greatest need with \$79,242,344 (73% of total) in unmet need, followed by the economic sector with \$26,391,345 (24%) of total in unmet need, followed by the infrastructure sector with 3,099,641 (3% of total) unmet need. Each of these three sectors will be addressed in greater detail in the following sections.

⁴⁰ <https://news.missouri.edu/2019/neighbors-helping-neighbors/>

⁴¹ <https://www.redcross.org/local/missouri/about-us/our-work/tornadoes-and-floods-response-and-relief.html>

⁴² <https://www.komu.com/news/multi-agency-resource-center-open-to-tornado-victims>

⁴³ https://sema.dps.mo.gov/maps_and_disasters/disasters/4451.php

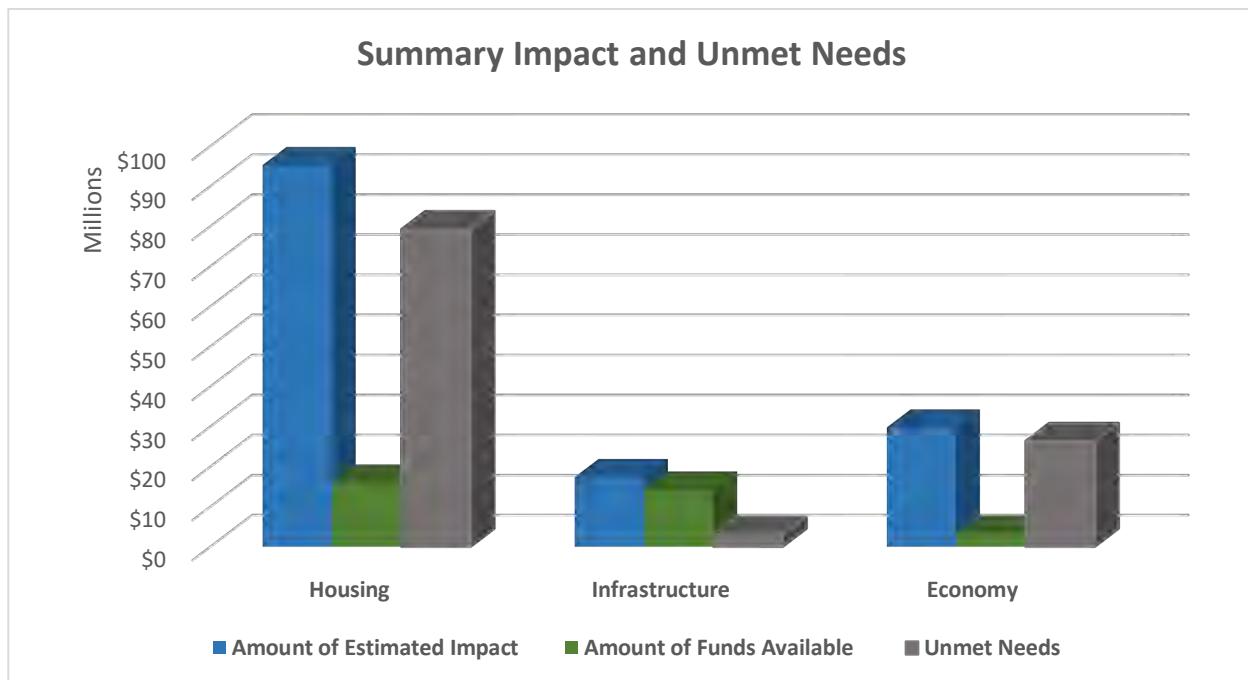


Figure 31. Unmet Need Summary

Table 14. Summary of Impacts/Support by Sector

Summary of Impacts/Support	Housing	Infrastructure	Economy	Total
Amount of Estimated Impact	\$95,258,657	\$17,368,924	\$29,759,845	\$142,387,426
Amount of Funds Available	\$16,016,313	\$14,269,283	\$3,368,500	\$33,654,096
Unmet Needs	\$79,242,344	\$3,099,641	\$26,391,345	\$108,733,330
Percent of Total	72.88%	2.85%	24.27%	

Housing Impact

Impacts to housing from flooding, tornadoes, and severe weather were widespread. Single family homeowners in stick-built homes, single family homeowners in mobile homes, and renters in various housing types of housing stock were affected. Table 15 and Table 16, below, show the FEMA Full Verified Loss (FVL) determinations in the impacted counties by owner and renter.

Table 15. DR4451 FEMA IA Owner Applicant Summary by County⁴⁴

County	# of Valid Registrants	Total Inspected	% Inspected	Count with FEMA Inspected Damage	% with FEMA Inspected Damage	Total Damage	Average Damage
Andrew	129	108	83.72%	81	75.00%	\$308,727	\$3,811
Atchison	49	41	83.67%	23	56.10%	\$143,090	\$6,221
Boone	10	10	100.00%	7	70.00%	\$87,816	\$12,545
Buchanan	93	90	96.77%	74	82.22%	\$526,980	\$7,121
Callaway	19	18	94.74%	16	88.89%	\$54,570	\$3,411
Carroll	65	44	67.69%	34	77.27%	\$183,471	\$5,396
Chariton	73	55	75.34%	42	76.36%	\$376,590	\$8,966
Cole	221	99	44.80%	85	85.86%	\$1,332,143	\$15,672
Greene	70	46	65.71%	36	78.26%	\$278,090	\$7,725
Holt	214	167	78.04%	109	65.27%	\$990,610	\$9,088
Jackson	131	124	94.66%	83	66.94%	\$762,420	\$9,186
Jasper	149	82	55.03%	67	81.71%	\$305,028	\$4,553
Jefferson	17	17	100.00%	12	70.59%	\$59,906	\$4,992
Lafayette	14	13	92.86%	10	76.92%	\$44,892	\$4,489
Lewis	16	13	81.25%	12	92.31%	\$102,406	\$8,534
Lincoln	116	105	90.52%	91	86.67%	\$1,412,499	\$15,522
Livingston	25	24	96.00%	18	75.00%	\$245,029	\$13,613
McDonald	77	69	89.61%	55	79.71%	\$565,719	\$10,286
Miller	81	34	41.98%	30	88.24%	\$215,764	\$7,192
Newton	61	58	95.08%	52	89.66%	\$200,933	\$3,864
Osage	17	16	94.12%	12	75.00%	\$37,729	\$3,144
Pike	70	55	78.57%	50	90.91%	\$398,741	\$7,975
Platte	17	16	94.12%	10	62.50%	\$31,156	\$3,116
Pulaski	20	18	90.00%	13	72.22%	\$114,347	\$8,796
Saline	8	8	100.00%	4	50.00%	\$16,454	\$4,114
St. Charles	455	381	83.74%	347	91.08%	\$4,643,469	\$13,382
Grand Total	2217	1711	77.18%	1373	80.25%	\$13,438,579	\$9,788

⁴⁴ <https://www.fema.gov/openfema-dataset-housing-assistance-data-owners-v1>

Table 16. DR4451 FEMA IA Renter Applicant Summary by County⁴⁵

County	# of Applicants	Number Inspected	% Inspected	% with FEMA Inspected Damage	% with No FEMA Damage	Total with Moderate Damage	Total with Major Damage	Total with Substantial Damage
Andrew	13	11	84.62%	36.36%	63.64%	4	0	0
Atchison	13	10	76.92%	40.00%	60.00%	4	0	0
Boone	8	6	75.00%	66.67%	33.33%	4	0	0
Buchanan	20	18	90.00%	33.33%	66.67%	6	0	0
Callaway	3	2	66.67%	50.00%	50.00%	1	0	0
Carroll	19	9	47.37%	55.56%	44.44%	5	0	0
Chariton	10	9	90.00%	88.89%	11.11%	8	0	0
Cole	253	188	74.31%	44.15%	55.85%	57	26	0
Greene	4	3	75.00%	33.33%	66.67%	1	0	0
Holt	69	68	98.55%	61.76%	38.24%	41	1	0
Jackson	31	27	87.10%	44.44%	55.56%	11	1	0
Jasper	8	7	87.50%	28.57%	71.43%	1	1	0
Jefferson	4	4	100.00%	25.00%	75.00%	1	0	0
Lafayette	1	0	0.00%	100.00%	0.00%	0	0	0
Lewis	1	1	100.00%	100.00%	0.00%	0	1	0
Lincoln	44	40	90.91%	57.50%	42.50%	18	5	0
Livingston	3	2	66.67%	50.00%	50.00%	1	0	0
McDonald	12	11	91.67%	63.64%	36.36%	7	0	0
Miller	74	55	74.32%	45.45%	54.55%	21	4	0
Newton	26	23	88.46%	34.78%	65.22%	8	0	0
Osage	1	1	100.00%	0.00%	100.00%	0	0	0
Pike	20	19	95.00%	68.42%	31.58%	12	1	0
Platte	2	2	100.00%	0.00%	100.00%	0	0	0
St. Charles	92	78	84.78%	70.51%	29.49%	39	16	0
Grand Total	731	594	81.26%	51.52%	48.48%	250	56	0

Housing Types Affected

More than 3,000 applicants filed for FEMA (IA) Individual Assistance statewide as a result of the 2019 floods, tornadoes, and severe weather damages. Of those who specified housing unit type, about 74% are homeowners, including single family homes, duplex units, mobile homes and other housing types (Table 17). The remaining 26% are renters, including renters of single-family homes, mobile homes, apartment units and other housing types (see Appendix J: DR-4451 County Median House Value, Appendix K: DR-4451 County Housing Tenure, and Appendix M: DR-4451 County Mobile Homes for detailed county-by-county maps of housing values, tenure, and by mobile homes). Of Cole County's 483 applicants (about 16% of all applicants), about 229 applicants owned their homes (7%) and about 254 applicants (8.5%)

⁴⁵ <https://www.fema.gov/openfema-dataset-housing-assistance-data-renters-v1>

rented their homes when disaster struck in 2019, the most of the three most impacted counties. In St. Charles County, however, more homeowners applied for IA, with 463 applicants (15.4%) owning their homes and 92 applicants (3%) renting. Holt County had 220 homeowner applicants (7.3%) and about 69 renter applicants (2.3%) (Table 18).

Table 17. DR 4451 FEMA IA Applicants by Ownership Type⁴⁶

Housing Type	Owner	Renter	Unknown	Grand Total
<i>Apartment</i>	5	254	1	260
<i>Boat</i>	4		1	5
<i>Condo</i>	1			1
<i>House/Duplex</i>	1,788	379	29	2,196
<i>Mobile Home</i>	223	40	6	269
<i>Townhouse</i>	6	2		8
<i>Travel Trailer</i>	42	13	1	56
<i>Other</i>	153	45	11	209
Grand Total	2,222	733	49	3,004

Table 18. DR 4451 FEMA IA Owner Applicants by Tenure and County

County	Owners				Renters			
	House or Duplex	Apartment, Condo, Townhouse	Mobile Home, Travel Trailer	Other	House or Duplex	Apartment, Condo, Townhouse	Mobile Home, Travel Trailer	Other
<i>Cole</i>	183	3	22	21	78	160	7	9
<i>Holt</i>	176	2	17	25	31	30	6	2
<i>St. Charles</i>	357	1	72	33	68	8	9	7
<i>Andrew</i>	104	-	23	7	11	-	2	-
<i>Atchison</i>	40	1	3	5	11	1	-	1
<i>Boone</i>	4	-	4	2	4	1	2	1
<i>Buchanan</i>	75	1	15	2	15	1	4	1
<i>Callaway</i>	13	-	5	3	2	-	-	1
<i>Carroll</i>	52	-	2	15	9	1	1	8
<i>Chariton</i>	63	-	7	10	10	-	-	-
<i>Greene</i>	65	-	3	2	5	-	-	-
<i>Jackson</i>	127	1	3	3	26	1	2	2
<i>Jasper</i>	136	-	12	2	7	-	1	-
<i>Jefferson</i>	13	-	2	2	4	-	-	-
<i>Lafayette</i>	11	-	2	1	-	-	-	1
<i>Lewis</i>	15	-	1	-	1	-	-	-
<i>Lincoln</i>	102	-	16	4	28	-	13	2

⁴⁶ Source: OpenFEMA Dataset: Individuals and Households Program (IHP) Valid Registrations-
<https://www.fema.gov/openfema-dataset-individuals-and-households-program-ihp-valid-registrations>

County	Owners				Renters			
	House or Duplex	Apartment, Condo, Townhouse	Mobile Home, Travel Trailer	Other	House or Duplex	Apartment, Condo, Townhouse	Mobile Home, Travel Trailer	Other
Livingston	15	-	8	2	1	-	1	1
McDonald	53	1	18	7	11	-	1	-
Miller	65	2	8	7	14	50	2	8
Newton	53	-	6	2	22	3	1	-
Osage	13	-	2	2	1	-	-	-
Pike	53	1	8	9	18	-	1	1
Platte	14	-	2	1	2	-	-	-
Pulaski	9	-	11	-				
Saline	6	-	-	2				
<i>Grand Total</i>	<i>1,817</i>	<i>13</i>	<i>272</i>	<i>169</i>	<i>379</i>	<i>256</i>	<i>53</i>	<i>45</i>

Single Family

Median housing values range from over \$250,000 to well below \$50,000 in different regions of the state. Generally, higher home values are associated with metropolitan or urban areas of Missouri, with the high median house values occurring around the metro areas of Kansas City, Columbia, and St. Louis (Figure 32). In Cole County, higher home values are associated with the suburban areas of Eldon and Wardsville, while the urban areas of Jefferson City have lower median house values (Figure 33). Median house values in Holt County are generally uniform and lower value, averaging between \$75,000 and \$125,000 (Figure 34). Median house values in St. Charles County, however, are the highest of the three most impacted counties, with most census tracts having values over \$225,000 on average (Figure 35). St. Charles County does have an interesting disparity in median house values, however, with areas closest to the Mississippi River in eastern portions of the county having values lower than \$75,000 on average.

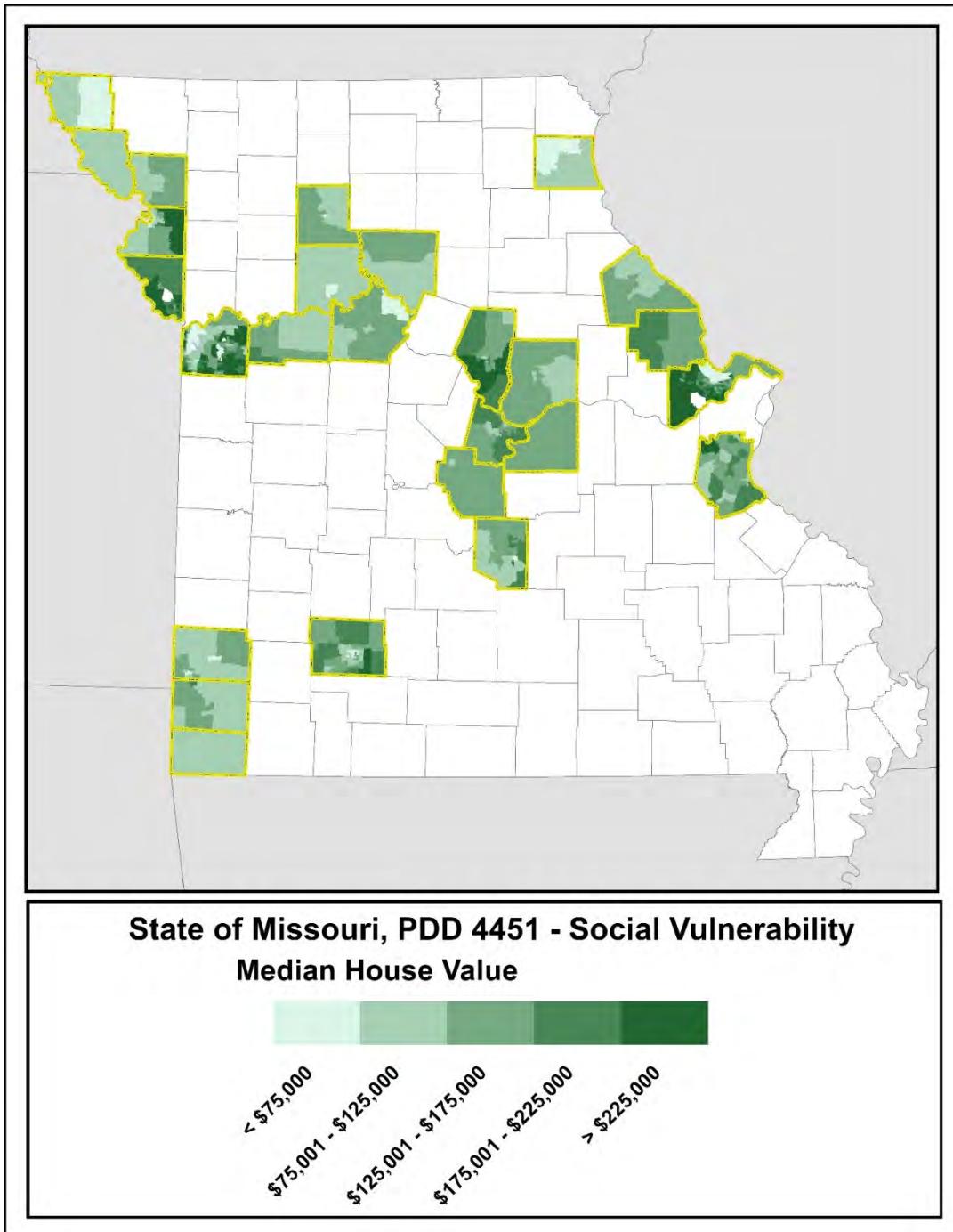


Figure 32. Median house value by census tract

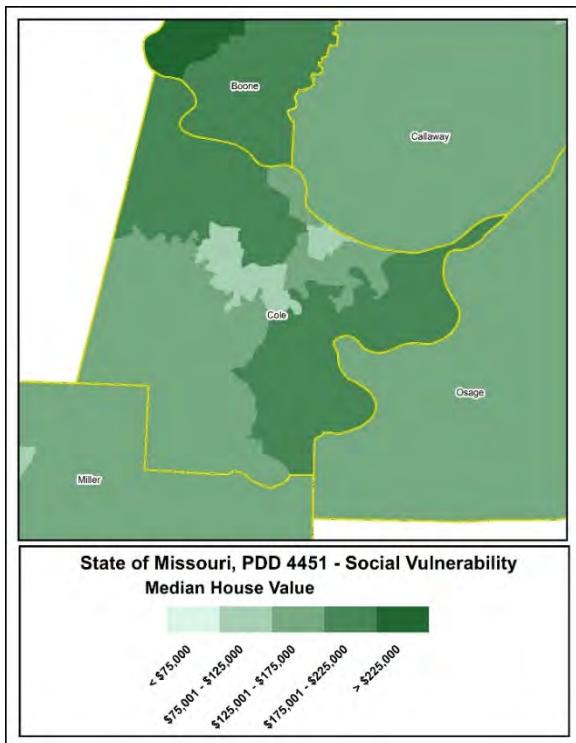


Figure 33. Median house value by census tract – Cole County

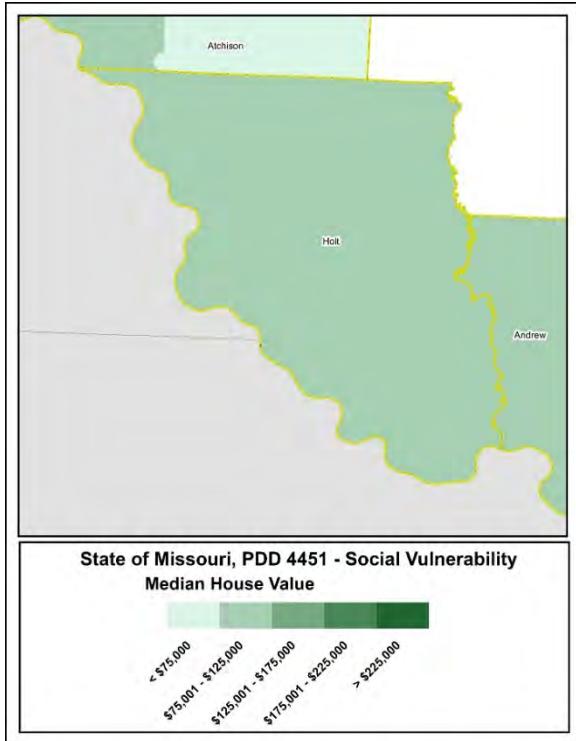


Figure 34. Median house value by census tract – Holt County

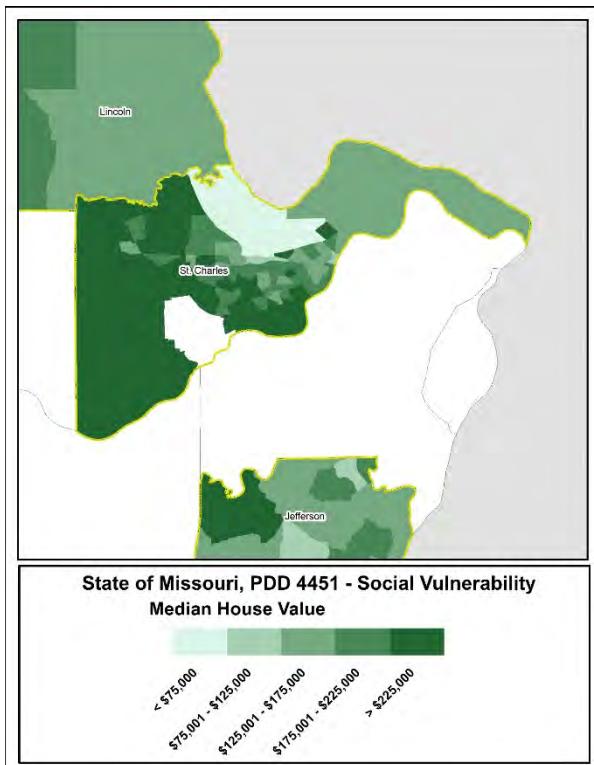


Figure 35. Median house value by census tract – St. Charles County

There are around 188,103 housing units in the most impacted areas of Cole, Holt, and St. Charles counties, with the majority of these housing units owned by residents (Figures 36 - 38). With much of the housing stock in the 30-year range (Table 19), key systems such as electrical, roofing, water heaters and furnaces may have already cycled through a replacement lifespan in many homes. Nearly 80% of homes in Holt County were built prior to 1989, compared to about 67% in Cole County and about 46% in St. Charles County. Though St. Charles County had the most housing units built in the 2000s, the three most impacted counties had an average of 3.4% increase in housing units since 2010.

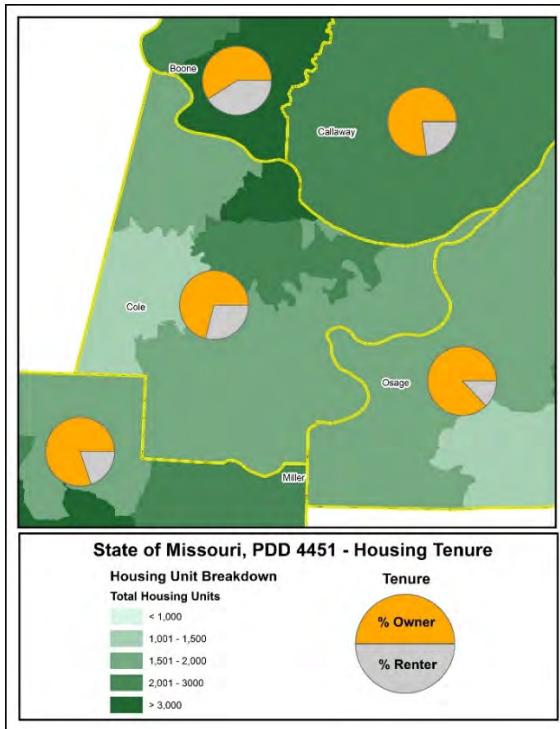


Figure 36. Housing stock count by tenure – Cole County

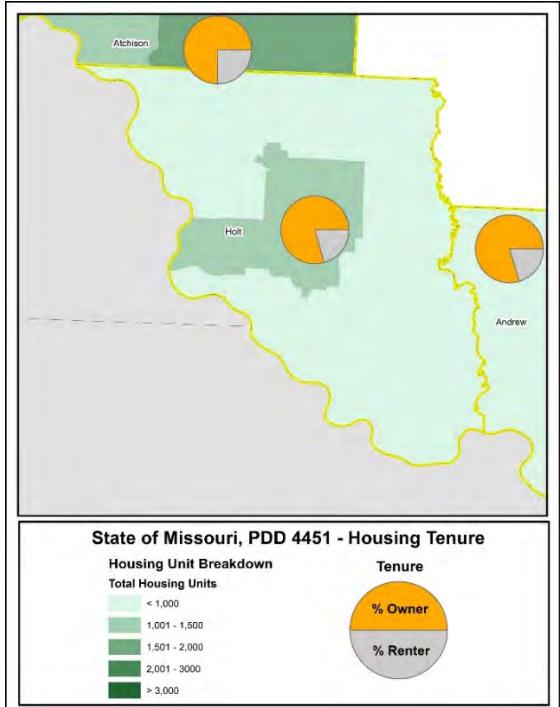


Figure 37. Housing stock count by tenure – Holt County

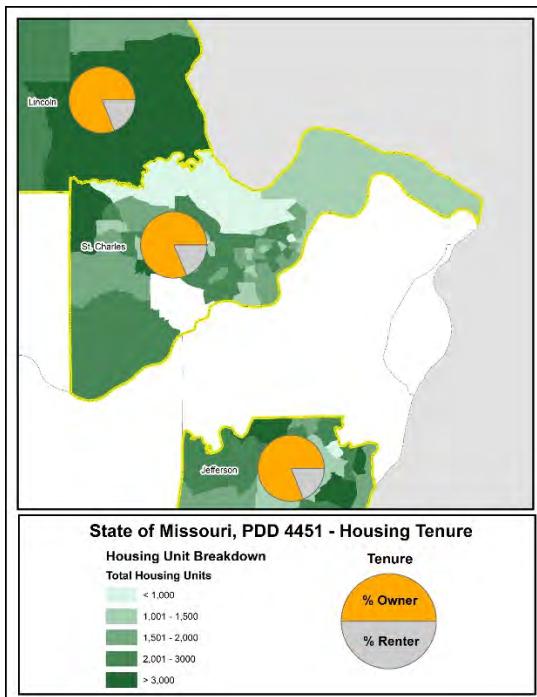


Figure 38. Housing stock count by tenure – St. Charles County

Table 19. DR-4451, Age of Housing Stock: Percentage of Units by Year Built, by County⁴⁷

County	Total Housing Units	2010 or Newer	2000 - 2009	1990 - 1999	1970 - 1989	Pre 1970
St. Charles	33,210	4.16%	11.17%	18.40%	31.26%	35.00%
	2,776	3.10%	7.67%	9.29%	21.90%	58.03%
	152,117	7.17%	24.56%	22.26%	31.51%	14.51%
Andrew	7,321	5.42%	12.28%	15.61%	27.91%	38.78%
Atchison	2,959	0.41%	4.02%	5.88%	18.59%	71.11%
Boone	76,185	8.32%	20.56%	18.83%	29.85%	22.44%
Buchanan	38,696	1.89%	6.96%	9.19%	21.66%	60.30%
Callaway	18,865	3.92%	17.56%	23.78%	27.94%	26.80%
Carroll	4,642	2.24%	6.70%	8.29%	21.07%	61.70%
Chariton	4,158	1.83%	9.93%	9.24%	29.03%	49.98%
Greene	132,241	4.77%	15.85%	18.71%	29.73%	30.94%
Jackson	320,515	2.25%	9.06%	10.35%	26.10%	52.23%
Jasper	50,872	9.84%	14.48%	14.18%	22.42%	39.08%
Jefferson	90,489	3.74%	18.96%	18.68%	31.37%	27.25%

⁴⁷ American Community Survey Selected Housing Characteristics, ACS 2014-2018, Table DP04 - https://data.census.gov/cedsci/table?d=ACS%205-Year%20Estimates%20Data%20Profiles&table=DP04&tid=ACSDP5Y2018.DP04&g=0400000US29.050000&hidePrevious=false&vintage=2018&layer=VT_2018_050_00_PY_D1&cid=DP04_0001E&t=Housing

County	Total Housing Units	2010 or Newer	2000 - 2009	1990 - 1999	1970 - 1989	Pre 1970
Lafayette	14,776	1.04%	13.58%	14.35%	28.81%	42.23%
Lewis	4,540	4.23%	15.70%	14.78%	27.69%	37.60%
Lincoln	21,569	5.22%	32.80%	19.54%	25.49%	16.95%
Livingston	6,795	2.80%	8.17%	9.89%	26.99%	52.16%
McDonald	9,956	4.21%	18.69%	17.51%	30.67%	28.92%
Miller	12,903	2.99%	14.16%	18.59%	35.40%	28.85%
Newton	24,687	4.34%	15.49%	18.54%	29.74%	31.89%
Osage	6,622	4.26%	15.43%	12.62%	30.29%	37.39%
Pike	7,911	2.59%	14.75%	13.80%	24.55%	44.31%
Platte	41,301	5.51%	20.02%	19.93%	34.29%	20.24%
Pulaski	19,058	13.27%	25.17%	16.56%	24.35%	20.65%
Saline	10,161	2.27%	8.03%	8.33%	28.78%	52.59%

Rental Housing

Rental housing is an important component of affordable housing in the impacted areas. Much of the rental housing (approximately 83%) in Missouri was built prior to 1999.⁴⁸ The older building codes and, in some cases, the lack of regular maintenance may add to the vacancy rate and therefore the rental housing needs.

The rental vacancy rate for Missouri was 6.6% according to the Census, American Community Survey (2014-2018).⁴⁹ In Cole County, the rental vacancy rate is 12.4%, based on the ACS data for the same period, slightly more than double the statewide rate. The median monthly rent for the state is \$830. Rents are lower in Cole County at \$628 per month and higher in St. Charles County at \$1,018 per month. Notably, however, statewide, a rather large number of renters pay (277,789, or about 38% of all renters) more than 35% of their income to rent, whereas the median mortgage is about \$1,249 and the vast majority of homeowners pay less than 20% of their monthly income to a mortgage. In Cole County, about 28% of renters pay more than 30% of their monthly income to rent, compared to about 31% of renters in St. Charles County. Some 154,981 people pay more than 30% of their monthly income to a mortgage throughout the state. ACS data for these variables and indicators is not available for Holt County. Of the FEMA applicants to the IA program for the state-assessed area, more than 733 live in rental housing; 514 of whom declared an income less than \$30,000.

As indicated by the maps below (Figures 39 - 41), rental units in Cole County are primarily single family and multi-family units, with the majority of renters in those unit types as opposed to mobile homes or

⁴⁸

https://data.census.gov/cedsci/table?q=Missouri&hidePreview=true&tid=ACSDP1Y2018.DP04&table=DP04&g=0400000US29_0500000US29051,29183&layer=VT_2018_050_00_PY_D1

⁴⁹

https://data.census.gov/cedsci/table?q=Missouri&hidePreview=true&tid=ACSDP1Y2018.DP04&table=DP04&g=0400000US29_0500000US29051,29183&layer=VT_2018_050_00_PY_D1

other housing types. This is due to the rural nature of the communities in Cole County. Both Holt and St. Charles counties are similar but have a moderate number of renters living in mobile homes.

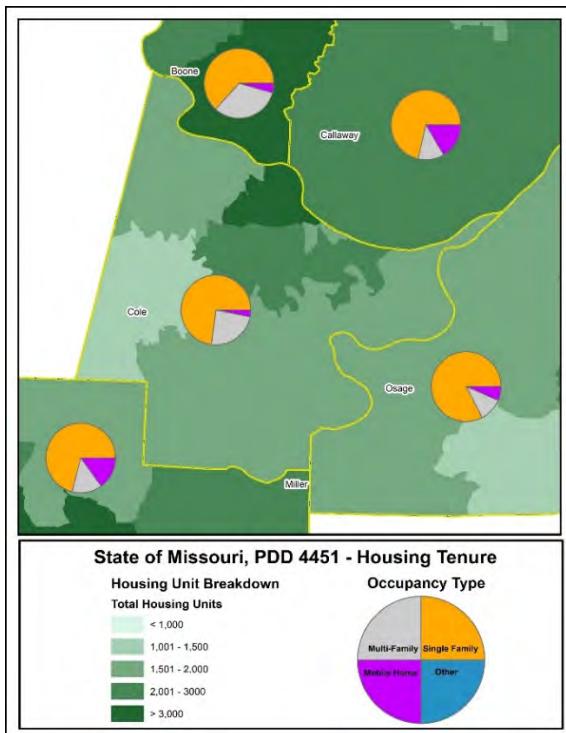


Figure 39. Rental housing unit breakdown, Cole County

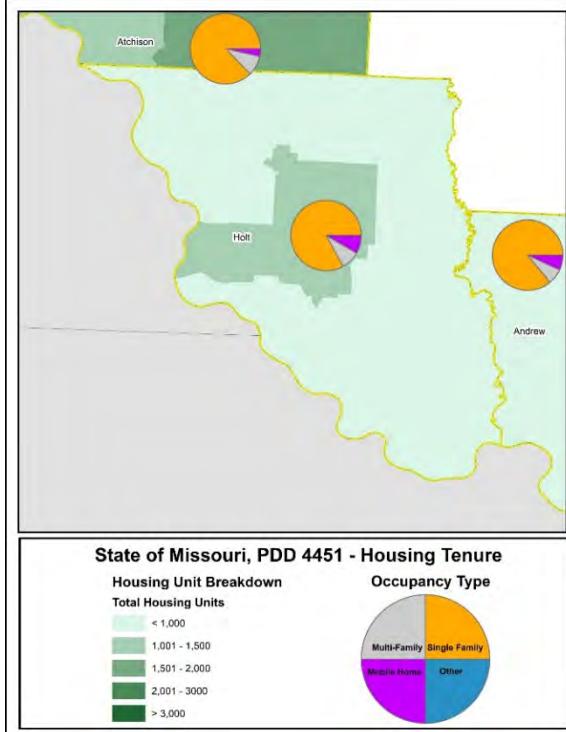


Figure 40. Rental housing unit breakdown, Holt County

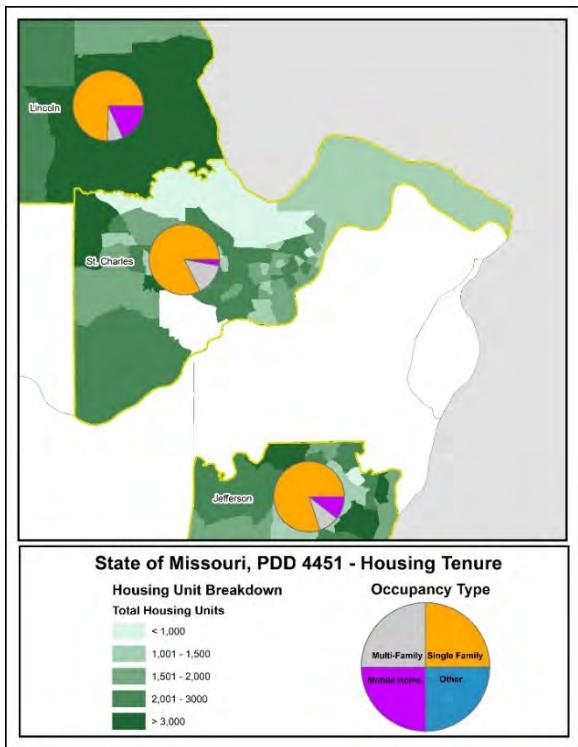


Figure 41. Rental housing unit breakdown, St. Charles County

Mobile Homes

Mobile homes (Figures 42 - 45) are part of the housing fabric of Missouri. Their affordability and ease of general maintenance provides housing independence and housing choice to residents across the state. However, tornadic damage can be catastrophic to mobile homes if unanchored or overwhelmed by stronger storms, and wind, rain, and flooding damage to mobile homes is often difficult to repair due to the integrated nature of the building components. In addition, when considering whether a structure is repairable or not, the cost of making those repairs may be disproportionately high when considering the overall value of the structure.

Often, the full extent of mobile home damage is not always realized in the early months after an event and can go unreported in the initial damage inspection. Damage such as water saturation of the particle board material that makes up the floor framing and decking can cause unsafe deterioration over time. The potential for mold and mildew in the home's structure or insulation can develop over time as well. Limited assistance funds distributed through fragmented assistance programs can lead to piecemeal repairs that add up in cost, without adequately addressing restoration of the home's structural integrity to a decent, safe and sanitary standard. Of the FEMA IA applicants in the state-assessed areas, approximately 111 of them reside in mobile home units in the three most impacted counties of Cole, Holt, and St. Charles counties. Notably, in the northeast portions of St. Charles County, more than 41% of homes are mobile homes located closest to the Mississippi River—one of the highest concentrations of mobile homes in the state. Of the 111 mobile home applicants requesting assistance, 72 of these homes are in St. Charles County, with 9 renting mobile homes as their primary residence.

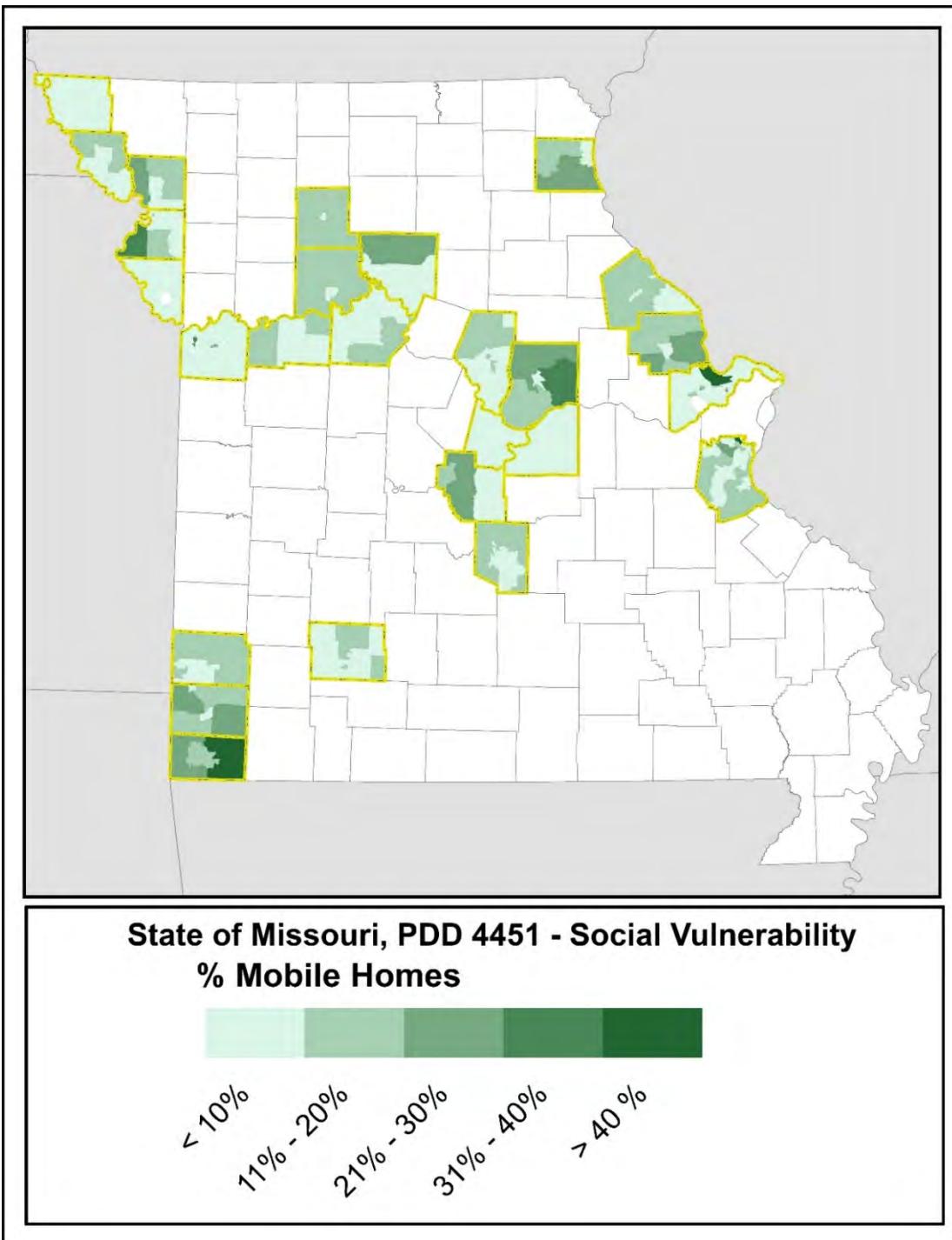


Figure 42. Mobile home percentages by census tract

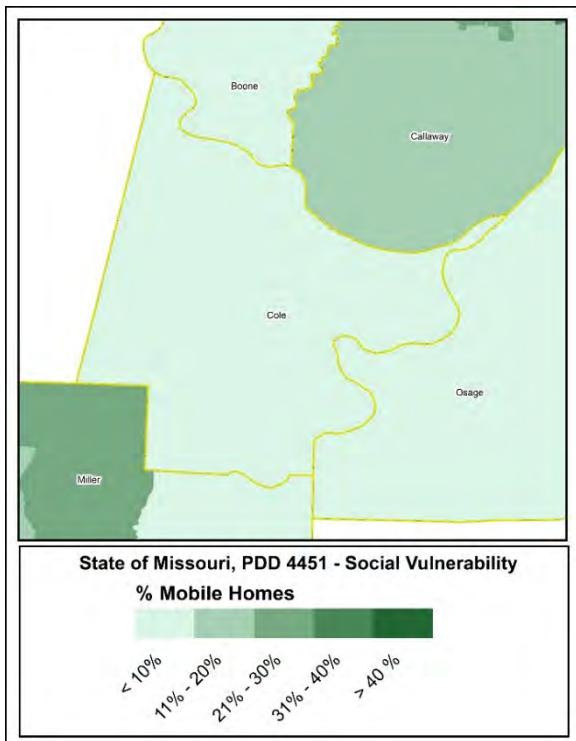


Figure 43. Mobile home percentages by census tract, Cole County

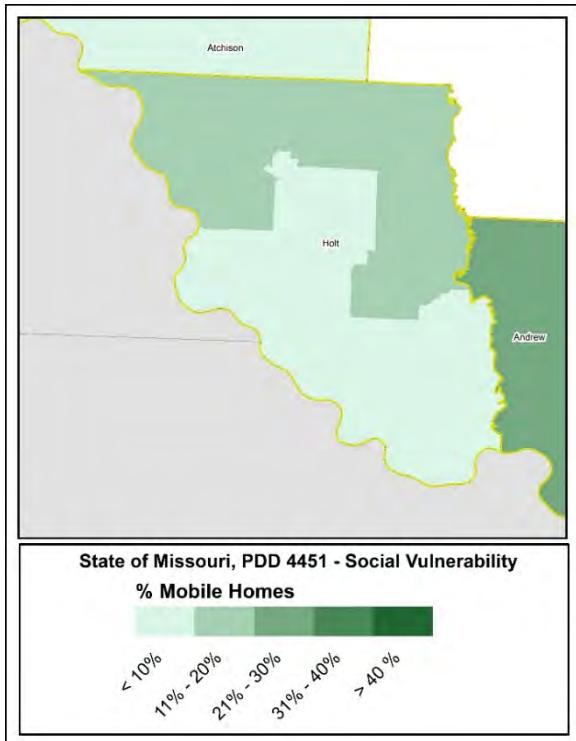


Figure 44. Mobile home percentages by census tract, Holt County

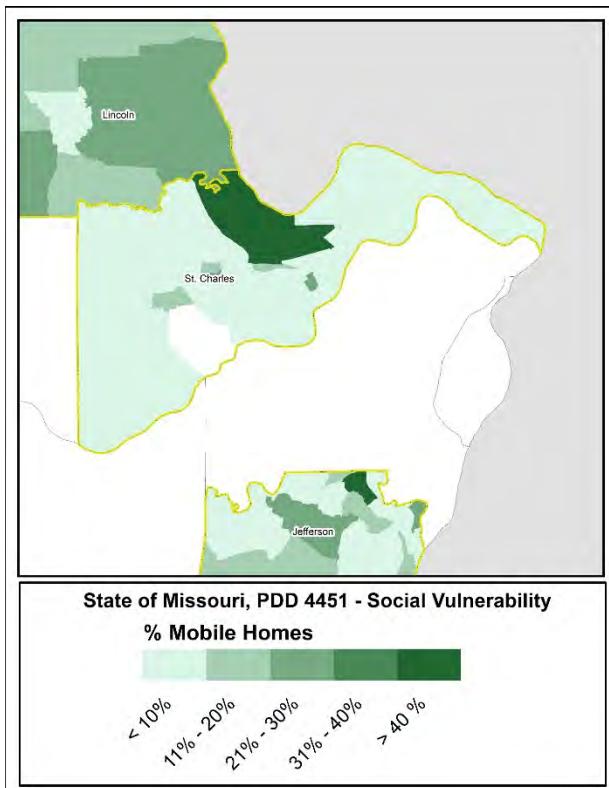


Figure 45. Mobile home percentages by census tract, St. Charles County

Mobile homes and damage to these vulnerable structures was also concentrated in rural, non-urban areas, as illustrated in the map above. Mobile homes damaged in Cole, Holt, and St. Charles Counties combine to account for nearly 45% of the total mobile homes damaged across the state. Across the state there were 162 mobile homes with a FEMA Real Property Verified Losses (Table 20).

Table 20. DR-4451, Mobile homes with FEMA Verified Losses

County	Owner	Renter	Grand Total
Andrew	9		9
Cole	16		16
Holt	9		9
Pike	6		6
Miller	7		7
Jackson	2		2
Callaway	3		3
St. Charles	46	1	47
Buchanan	9	1	10
Livingston	5		5
Jasper	9		9
Lincoln	8		8
Greene	2		2

Pulaski	9	9
Atchison	1	1
Lafayette	1	1
Newton	6	6
Lewis	1	1
Chariton	3	3
Boone	3	3
McDonald	3	3
Osage	2	2
Grand Total	160	2
		162

Summary Tables

When looking at the FEMA IA applicant population, many of the applicants either reside in high vulnerability zip codes, as defined by High social vulnerability scores, or Medium-High social vulnerability areas. Of these residents, there are subsets of populations over the age of 65, and additionally, who are over 65 and have access and functional needs (AFN). These applicants, and those who are low-income, often have the fewest means of assistance available to them. Table 21 - 26 provide breakouts of FEMA IA applicants into categories considering ownership versus rental, age, and access and functional needs.

Table 21: Applicant breakdowns by housing tenure and age

County	Owner	Renter	Unknown	Grand Total
Andrew	129	13	5	147
Under 65	88	9	3	100
Over 65	41	4	2	47
Cole	221	254	8	483
Under 65	156	245	6	407
Over 65	65	9	2	76
Holt	214	69	6	289
Under 65	130	43	4	177
Over 65	84	26	2	112
Pike	71	20		91
Under 65	43	18		61
Over 65	28	2		30
Miller	82	74		156
Under 65	56	56		112
Over 65	26	18		44
Jefferson	17	4		21
Under 65	13	3		16
Over 65	4	1		5
Jackson	133	31	1	165
Under 65	107	29	1	137

Over 65	26	2		28
Callaway	19	3	2	24
Under 65	12	3	1	16
Over 65	7		1	8
St. Charles	456	92	7	555
Under 65	331	85	7	423
Over 65	125	7		132
Buchanan	92	21	1	114
Under 65	60	18	1	79
Over 65	32	3		35
Livingston	25	3		28
Under 65	16	3		19
Over 65	9			9
Jasper	149	8	1	158
Under 65	101	7		108
Over 65	48	1	1	50
Lincoln	116	43	6	165
Under 65	89	42	3	134
Over 65	27	1	3	31
Greene	70	5		75
Under 65	42	5		47
Over 65	28			28
Pulaski	20			20
Under 65	12			12
Over 65	8			8
Atchison	49	13		62
Under 65	28	13		41
Over 65	21			21
Lafayette	14	1		15
Under 65	8			8
Over 65	6	1		7
Newton	61	26		87
Under 65	45	24		69
Over 65	16	2		18
Lewis	16	1		17
Under 65	14	1		15
Over 65	2			2
Chariton	73	10	7	90
Under 65	45	9	4	58
Over 65	28	1	3	32
Boone	10	8		18
Under 65	6	8		14

Over 65	4			4
Platte	17	2		19
Under 65	14	2		16
Over 65	3			3
Carroll	65	19	4	88
Under 65	45	18	2	65
Over 65	20	1	2	23
McDonald	78	12	1	91
Under 65	57	11		68
Over 65	21	1	1	23
Osage	17	1		18
Under 65	14	1		15
Over 65	3			3
Saline	8			8
Under 65	3			3
Over 65	5			5
Grand Total	2,222	733	49	3,004

Table 22: DR-4451 Applicant breakdowns by housing tenure and access and function needs

County	Access and Functional Needs		Without Access and Functional Needs	
	Owners	Renters	Owners	Renters
<i>Cole</i>	27	42	202	212
<i>Holt</i>	27	13	193	56
<i>St. Charles</i>	69	8	394	84
<i>Andrew</i>	16	2	118	11
<i>Atchison</i>	12	0	37	13
<i>Boone</i>	3	0	7	8
<i>Buchanan</i>	10	3	83	18
<i>Callaway</i>	4	0	17	3
<i>Carroll</i>	3	1	66	18
<i>Chariton</i>	12	2	68	8
<i>Greene</i>	12	1	58	4
<i>Jackson</i>	26	8	108	23
<i>Jasper</i>	9	0	141	8
<i>Jefferson</i>	0	1	17	3
<i>Lafayette</i>	4	0	10	1
<i>Lewis</i>	2	0	14	1
<i>Lincoln</i>	18	7	104	36
<i>Livingston</i>	2	0	23	3
<i>McDonald</i>	13	1	66	11

County	Access and Functional Needs		Without Access and Functional Needs	
	Owners	Renters	Owners	Renters
Miller	11	22	71	52
Newton	8	2	53	24
Osage	2	0	15	1
Pike	7	4	64	16
Platte	1	0	16	2
Pulaski	5	0	15	0
Saline	1	0	7	0
<i>Grand Total</i>	304	117	1,967	616

Table 23: DR-4451 Owner-Occupied Units by LMI and County

County	Total Owners	Total Under 80% LMI	Percent of Total Owners Under 80% LMI	Number under 30% LMI	Number 30%-50% LMI	Number 50%-80% LMI	Number over 80% LMI
Cole	229	139	60.70%	56	44	39	90
Holt	220	98	44.55%	44	27	27	122
St. Charles	463	318	68.68%	104	69	145	145
Andrew	134	63	47.01%	23	24	16	71
Atchison	49	24	48.98%	12	4	8	25
Boone	10	9	90.00%	5	4	0	1
Buchanan	93	41	44.09%	14	20	7	52
Callaway	21	11	52.38%	3	7	1	10
Carroll	69	28	40.58%	13	4	11	41
Chariton	80	51	63.75%	30	5	16	29
Greene	70	22	31.43%	10	2	10	48
Jackson	134	51	38.06%	27	21	3	83
Jasper	150	41	27.33%	23	6	12	109
Jefferson	17	13	76.47%	4	4	5	4
Lafayette	14	10	71.43%	3	3	4	4
Lewis	16	9	56.25%	5	1	3	7
Lincoln	122	97	79.51%	33	29	35	25
Livingston	25	17	68.00%	10	0	7	8
McDonald	79	43	54.43%	28	0	15	36
Miller	82	44	53.66%	25	2	17	38
Newton	61	31	50.82%	15	6	10	30
Osage	17	10	58.82%	5	4	1	7
Pike	71	37	52.11%	23	6	8	34
Platte	17	10	58.82%	0	3	7	7

County	Total Owners	Total Under 80% LMI	Percent of Total Owners Under 80% LMI	Number under 30% LMI	Number 30%-50% LMI	Number 50%-80% LMI	Number over 80% LMI
Pulaski	20	14	70.00%	5	5	4	6
Saline	8	1	12.50%	1	0	0	7
Grand Total	2,271	1,232	54.25%	521	300	411	1,039

Table 24: DR-4451 Renter-Occupied Units by LMI and County

County	Total Renters	Total Under 80% LMI	Percent of Total Renters Under 80% LMI	Number under 30% LMI	Number 30%-50% LMI	Number 50%-80% LMI	Number above 80% LMI
Cole	254	238	93.70%	124	79	35	16
Holt	69	54	78.26%	27	11	16	15
St. Charles	92	70	76.09%	25	19	26	22
Andrew	13	11	84.62%	4	5	2	2
Atchison	13	5	38.46%	1	2	2	8
Boone	8	7	87.50%	5	2		1
Buchanan	21	16	76.19%	10	3	3	5
Callaway	3	1	33.33%	1			2
Carroll	19	11	57.89%	6	2	3	8
Chariton	10	8	80.00%	6	1	1	2
Greene	5	3	60.00%	1	1	1	2
Jackson	31	20	64.52%	17	2	1	11
Jasper	8	8	100.00%	4	3	1	
Jefferson	4	4	100.00%	2		2	
Lafayette	1	0	0.00%				1
Lewis	1	0	0.00%				1
Lincoln	43	41	95.35%	17	10	14	2
Livingston	3	2	66.67%	2			1
McDonald	12	8	66.67%		3	5	4
Miller	74	67	90.54%	39	4	24	7
Newton	26	23	88.46%	12	5	6	3
Osage	1	1	100.00%			1	
Pike	20	15	75.00%	10	4	1	5
Platte	2	2	100.00%			2	
Pulaski		0	0.00%				
Saline		0	0.00%				
Grand Total	733	615		313	156	146	118

Table 25: Owner Applicant breakdown by LMI, Age, and Access and Function Needs

	Owner and Below 80% LMI	Owner, Below 80% LMI, over 80% LMI	Owner, Below 80% LMI, over 80% LMI and Age 65, and and	
<i>County</i>	Owners	Below 80% LMI	Over Age 65	With Access and Functional Needs
<i>Andrew</i>	134	63	24	4
<i>Atchison</i>	49	24	12	6
<i>Boone</i>	10	9	3	1
<i>Buchanan</i>	93	41	13	2
<i>Callaway</i>	21	11	4	2
<i>Carroll</i>	69	28	9	1
<i>Chariton</i>	80	51	21	5
<i>Cole</i>	229	139	43	14
<i>Greene</i>	70	22	6	1
<i>Holt</i>	220	98	38	9
<i>Jackson</i>	134	51	11	3
<i>Jasper</i>	150	41	15	3
<i>Jefferson</i>	17	13	4	
<i>Lafayette</i>	14	10	5	1
<i>Lewis</i>	16	9	1	
<i>Lincoln</i>	122	97	24	5
<i>Livingston</i>	25	17	7	1
<i>McDonald</i>	79	43	12	5
<i>Miller</i>	82	44	14	2
<i>Newton</i>	61	31	8	2
<i>Osage</i>	17	10	2	
<i>Pike</i>	71	37	13	4
<i>Platte</i>	17	10	3	
<i>Pulaski</i>	20	14	6	3
<i>Saline</i>	8	1	1	
<i>St. Charles</i>	463	318	103	26
<i>Grand Total</i>	2,271	1,232	402	100

Table 26: Renter Applicant breakdown by LMI, Age, and Access and Function Needs

	Renter and Below 80% LMI	Renter, Below 80% LMI	Renter, Below 80% LMI, over Age 65, and and	With Access and Functional Needs
<i>County</i>	<i>Renters</i>	<i>Below 80% LMI</i>	<i>Over Age 65</i>	<i>With Access and Functional Needs</i>
<i>Andrew</i>	13	11	3	
<i>Atchison</i>	13	5		
<i>Boone</i>	8	7		
<i>Buchanan</i>	21	16	3	2
<i>Callaway</i>	3	1		
<i>Carroll</i>	19	11		
<i>Chariton</i>	10	8	1	1
<i>Cole</i>	254	238	9	3
<i>Greene</i>	5	3		
<i>Holt</i>	69	54	21	7
<i>Jackson</i>	31	20	2	1
<i>Jasper</i>	8	8	1	
<i>Jefferson</i>	4	4	1	
<i>Lafayette</i>	1			
<i>Lewis</i>	1			
<i>Lincoln</i>	43	41	1	
<i>Livingston</i>	3	2		
<i>McDonald</i>	12	8	1	1
<i>Miller</i>	74	67	17	4
<i>Newton</i>	26	23	1	
<i>Osage</i>	1	1		
<i>Pike</i>	20	15	1	1
<i>Platte</i>	2	2		
<i>St. Charles</i>	92	70	5	2
<i>Grand Total</i>	733	615	67	22

Public Housing

Public Housing is an integral piece of the State's housing resources for low-income persons. Statewide, there are approximately 32 section 8 participants who were in some way impacted by the severe storms. Fortunately, all of these units were repaired in June/July 2019 and all residents were invited to re-inhabit units.

Fair Housing

The State, including multiple stakeholders such as the Missouri Certified Sites Program, the Missouri Economic Development Council, and the Missouri Housing Development Commission, has conducted Fair Housing Surveys on a regular and ongoing basis, and has also undertaken public awareness activities, such as fair housing fairs and roundtable discussions. The State's fair housing efforts related to HUD funding have been detailed each year in the State's Consolidated Annual Performance and Evaluation Report, as required by HUD.

The State of Missouri has created this Unmet Needs Assessment and Action Plan to address a general program design that targets assistance funding to citizens with the most recovery needs as determined by geographic concentration of damage, financial impact, and social vulnerability indicators. These criteria cover a broad spectrum of characteristics, none of which will be considered in isolation. The state will remain highly agile throughout the planning and implementation process to ensure program design is consistent with need as identified through public engagement.

Missouri has conducted comprehensive resilience planning that considers regional drivers of short-and long-term resilience and fair housing practices to the smallest possible geographic level. The state will execute resilience planning methods that incorporate data analyzed via social vulnerability as well as public involvement and social justice processes. Resilience planning will incorporate measures to strategically align resources in a way that emboldens drivers of resilience, especially those that provide protection for the most vulnerable, consistent with HUD's direction to Affirmatively Further Fair Housing.

Housing Funds Made Available

The main federal funding sources that are available for impacted residents in the immediate aftermath of a disaster are FEMA Individual Assistance, low-interest loans from the U.S. Small Business Association (SBA), and insurance proceeds from the National Flood Insurance Program (NFIP). These three funding streams account for a majority of all housing recovery funds made available before CDBG-DR.

Of the twenty-six counties declared eligible to receive Individual Assistance funding through FEMA in Missouri's DR-4451 area of interest, there were 3,004 Applicants.

Of these, 1,391 had a FEMA Property Loss (FVL) assessment; however, this does not mean that the applicant actually received funding. Of the applicants with an FVL, 959 received housing assistance (HA). An estimated \$12,348,433 in damage was assessed for the applicants with an FVL. Funds to recover from those with real property losses coupled with housing assistance for applicants with no FVL has resulted in \$6,119,524 in housing assistance to date (Table 28).

Table 28: DR-4451 Applicants by FEMA Verified Losses and FEMA Housing Assistance Support

Impacted Counties	FEMA IA Applicants	Percentage of Applicants	Amount of Real Property Loss (Housing Assistance)	Average Real Property Loss (Housing Assistance)
<i>Universe (All Counties)</i>	3,004			
<i>Had FEMA Real Property Loss</i>	1,391	46.30%	\$12,348,433	\$4,111
<i>Received HA</i>	959	31.92%	(\$5,584,150)	\$5,823
<i>Received No HA</i>	432	14.38%	\$0	\$0
<i>No FEMA Real Property Loss</i>	1,613	53.70%		
<i>Received HA</i>	332	11.05%	(\$535,373)	\$1,613
<i>Received No HA</i>	1,281	42.64%	\$0	\$0

FEMA Individual Assistance (IA)

The FEMA Individual Assistance program (IA) consists of a multitude of services for individuals in disaster declared counties. Specifically, housing funds are for bridging the gap from sheltering to the return to permanent housing. These funds can be used for limited basic home repairs and replacement of essential household items as well as rental payments for temporary housing. Importantly, FEMA IA is limited to bring a home back to a basic level of “safe and sanitary living or functioning condition,” and does not account for the full extent of the home’s damage or need. By mandate, FEMA only accounts for losses to essential living areas – those areas used by residents of a home, but does not count damages in extra bedrooms, bathrooms, or unoccupied basements, among other areas.⁵⁰

Missouri’s Disaster History

Since 1957, Missouri has had 61 Major Disaster Declarations, including twenty (51) disasters involving flooding - a rate of nearly one major disaster every .8 years.⁵¹ Concurrently, severe storm disaster events are nearly as frequent as flooding events across the state and although tornado disasters continue to be less frequent than flooding events (25 Disaster events include tornadoes since 1957), they are among the top three events included in Presidential Disaster Declarations (Table 29). In short, Missouri is not a stranger to extreme events or Major Disasters.

⁵⁰ <https://www.fema.gov/news-release/2012/12/18/fema-housing-assistance-based-damage-essential-living-areas>

⁵¹

https://www.fema.gov/disasters?field_dv2_state_tribal_value_selective=MO&field_dv2_incident_type_t_id=49112&field_dv2_declaration_type_value=DR&field_dv2_incident_begin_value%5Bvalue%5D%5Bmonth%5D=&field_dv2_incident_begin_value%5Bvalue%5D%5Byear%5D=&field_dv2_incident_end_value%5Bvalue%5D%5Bmonth%5D=&field_dv2_incident_end_value%5Bvalue%5D%5Byear%5D=

Table 29: State of Missouri hazards included in historical disaster declarations

Hazard	Times included in a Disaster Declaration
Flooding	48
Severe Storms	44
Tornadoes	25
Straight-line Winds	7
Severe Winter Storm	6
Floods	3
Hail	2
Tornado	2
Flash Flooding	1
Heavy Rains	1
High Wind	1
Ice Storm	1
Severe Thunderstorms	1
Snowstorm	1
Torrential Rain	1
Grand Total	144

National Flood Insurance Program (NFIP) Coverage

Unfortunately, like many other places in the Mid-West, Missouri residents tend to be under-insured in terms of flood coverage. In fact, as of 2017, Missouri had only 21,503 NFIP policies (Figure 46)⁵² - an extremely low rate of 0.7% of all housing units (2,806,371) in the state. This low level of insurance uptake can be the result of properties being “heirship” (deeded down from parents or grandparents) or lien-free because the home no longer has a mortgage associated with it. Without a bank note, an owner may not be aware of the home’s location in the floodplain, or they may choose to forego flood insurance since it is not mandated.

⁵² https://www.fema.gov/media-library-data/1545238473991-81a51f3e5c4cbfbd44e86a3548804227/Total_PIF_fy2017.pdf

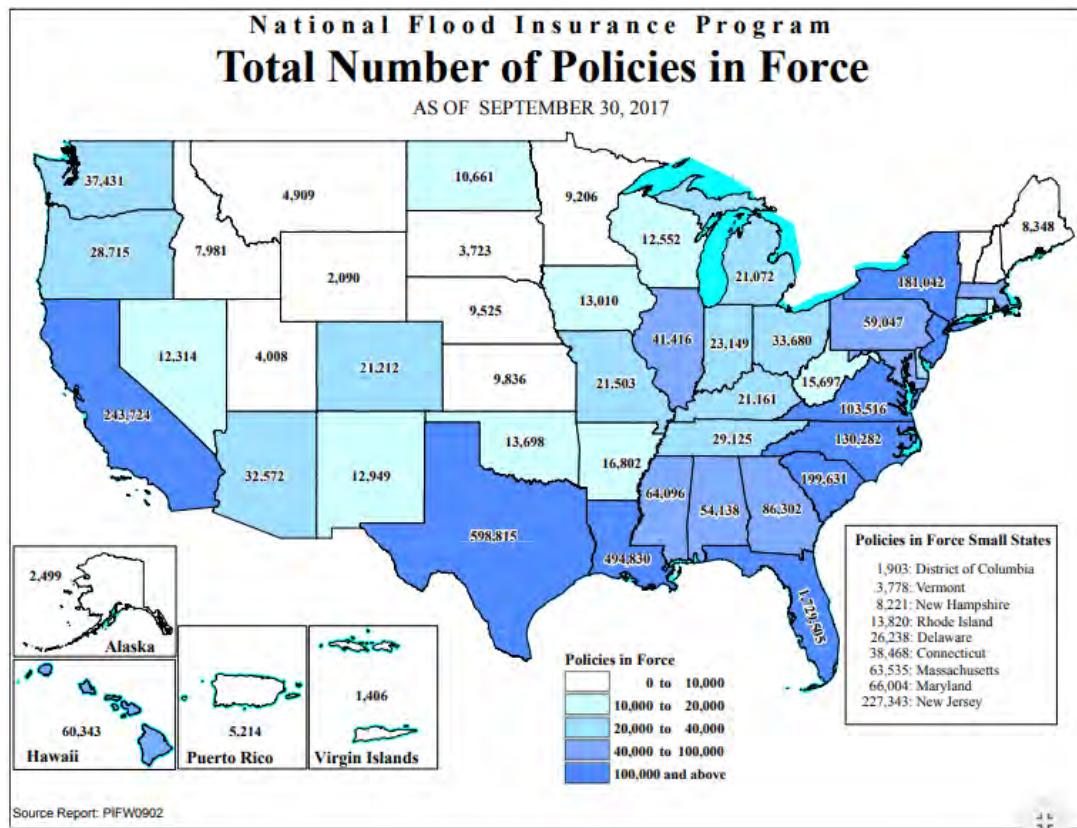


Figure 46. National Flood Insurance Policies by year for the United States

Paid flood insurance claims were not a significant source of recovery funds for Missouri following this disaster event. According to FEMA Open NFIP redacted Claims data⁵³ only \$983,189 was distributed across the DR-4451 impact area (Table 30). Furthermore, while nearly 1,000 flood claims were made between April 29 – July 5, 2019, only 118 have been closed and marked as paid as of this report’s creation, an overall rate of just under 12%.

Table 30. DR-4451, NFIP Flood Claim Payout Summary by County

County	All Flood Claims	Paid Flood Claims	Claim payout percentage	Total Building Payments
Cole	23	3	13.04%	\$5,383
Holt	36	0	0.00%	\$0
St. Charles	401	58	14.46%	\$464,048
Andrew	15	5	33.33%	\$50,754
Atchison	1	0	0.00%	\$0
Boone	3	0	0.00%	\$0
Buchanan	43	1	2.33%	\$6,354
Callaway	17	0	0.00%	\$0

⁵³ <https://www.fema.gov/media-library/assets/documents/180374>

County	All Flood Claims	Paid Flood Claims	Claim payout percentage	Total Building Payments
<i>Carroll</i>	20	1	5.00%	\$1,666
<i>Chariton</i>	17	0	0.00%	\$0
<i>Greene</i>	1	0	0.00%	\$0
<i>Jackson</i>	19	5	26.32%	\$70,504
<i>Jasper</i>	20	3	15.00%	\$20,379
<i>Jefferson</i>	30	3	10.00%	\$25,866
<i>Lafayette</i>	0	0	-	\$0
<i>Lewis</i>	34	2	5.88%	\$5,928
<i>Lincoln</i>	134	16	11.94%	\$146,070
<i>Livingston</i>	2	0	0.00%	\$0
<i>McDonald</i>	54	7	12.96%	\$102,937
<i>Miller</i>	1	1	100.00%	\$5,739
<i>Newton</i>	29	4	13.79%	\$46,458
<i>Osage</i>	6	0	0.00%	\$0
<i>Pike</i>	68	8	11.76%	\$26,608
<i>Platte</i>	9	1	11.11%	\$4,494
<i>Pulaski</i>	1	0	0.00%	\$0
<i>Saline</i>	1	0	0.00%	\$0
<i>Grand Total</i>	985	118	11.98%	\$983,189

Small Business Administration (SBA) Home Loans

The SBA has made \$8,468,600 in assistance available to 221 homeowner applicants in the DR-4451 impact area for residential repairs, rebuilding, or relocations (Table 31). The low-interest loans are made available for the purposes of home repair and personal property loss. The average loan for this disaster event was \$38,319. It is important to note that the average SBA loan is more than 8 times more than the average FEMA HA payment of \$4,740. This important difference will be discussed more in the section.

Table 31. SBA Home Loan Summary.

SBA Rebuild/Repair Loan Type	Number of Loans	Total Loan	Average Loan
<i>Repair</i>	195	5,832,700	\$29,911
<i>Relocation</i>	5	436,700	\$87,340
<i>Reconstruction</i>	21	2,199,200	\$104,724
<i>Across All Programs</i>	221	8,468,600	\$38,319

Housing Unmet Need

Approximately 1,713 FEMA Individual Assistance applicants (57%) in the state-assessed area have not been deemed eligible to receive housing assistance to date. There are a variety of reasons why an applicant may be deemed ineligible for assistance. According to FEMA, a few of these reasons are:

- *“Sometimes a first ineligibility determination is simply a clerical error, such as a name is misspelled, an address doesn’t match, or a signature has been left out.”*
- *If more than one person from the same home address registered, the applications will be flagged until the head of household can be determined.*
- *The applicant has insurance, and more information about the policy is needed. FEMA cannot duplicate benefits. However, once you receive insurance payment, FEMA may be able to assist with uninsured losses.*
- *Proof of occupancy is required. Whether a homeowner or renter, the damaged dwelling must be a primary residence where the applicant lived at the time of the disaster.*
- *Identity verification is needed. Sometimes an applicant simply needs to submit documentation—such as a passport or military issued ID—so a social security number can be verified. If an applicant was recently married, a marriage certificate or license may be required to verify any name change.”⁵⁴*

Importantly, however, an applicant may be determined to be ineligible because a FEMA damage inspector attributes damage claimed by the applicant as flood/storm-related to have been caused by pre-disaster conditions, or deferred maintenance. In other words, the inspector may determine that rain damage to the ceiling was due to the applicant having a poorly maintained roof in place before the storm, and not because the storm itself caused the damage. While there are likely many cases where an applicant is unable to identify uniquely storm-related damage to their home, in many cases, the older homes that lower-income and vulnerable applicants may live in can complicate the rapid inspections conducted by FEMA field officers.

The insurance-defined differences between flood damage and water damage are technical in nature and can be misunderstood by residents and damage inspectors alike. Damage from a flood occurs when water rises on land that is usually dry. However, water damage occurs when the water strikes the home prior to making contact with the ground. In many cases, a resident may not have the protection of flood insurance if they rent, live in a home with no mortgage, and/or live in a moderate-to-low-risk flood hazard area.⁵⁵ Many homeowners as well as renters may not realize that flood damage is not covered by a standard homeowner/rental insurance policy. Damage inspectors, expecting to see flood damage, may overlook water damage caused by rain. These complications can result in hardship and frustration after a disaster if residents are unable to receive assistance to repair their damaged home.

⁵⁴ <http://www.fema.gov/news-release/2013/05/21/ineligible-fema-may-just-need-more-information>

⁵⁵ Fast Home Help: <http://www.fasthomehelp.com/blog/2013/03/26/flood-damage-versus-water-damage-123804>

This issue has been brought to light in previous disasters. In Texas, fair housing advocates note:

“Following Hurricane Ike, FEMA denied at least 85% of the more than 578,000 applications for housing assistance. The most common denial code used by FEMA (in over 100,000 cases) was “insufficient damage.” Many low-income applicants were told informally by FEMA that their “insufficient damage” denials were actually based on “deferred maintenance.” FEMA alleged that the homes had been in poor condition before the storm and therefore damage could not be attributed to the hurricane. Because low-income households are more likely to have “deferred maintenance,” these denials had a disproportionate impact on low-income households, particularly in minority neighborhoods. Non-profit groups in Houston reported that entire neighborhoods, generally low income and minority concentrated, of damaged homes were deemed to have “insufficient damage.” FEMA similarly denied half of all applications for housing assistance following Hurricane Dolly. Based on a suit by Texas homeowners, a Federal District Court held that FEMA could not rely on this unpublished rule.”⁵⁶

The chart below shows the percent of people who applied to FEMA IA who have received an award, by county, as well as the number of applicants receiving funds. On average, the award rate is approximately 43.4% for the impacted counties. This number will continue to fluctuate as applicants move through the review pipeline, but it will not go up or down significantly from this low level of support (Figure 47).

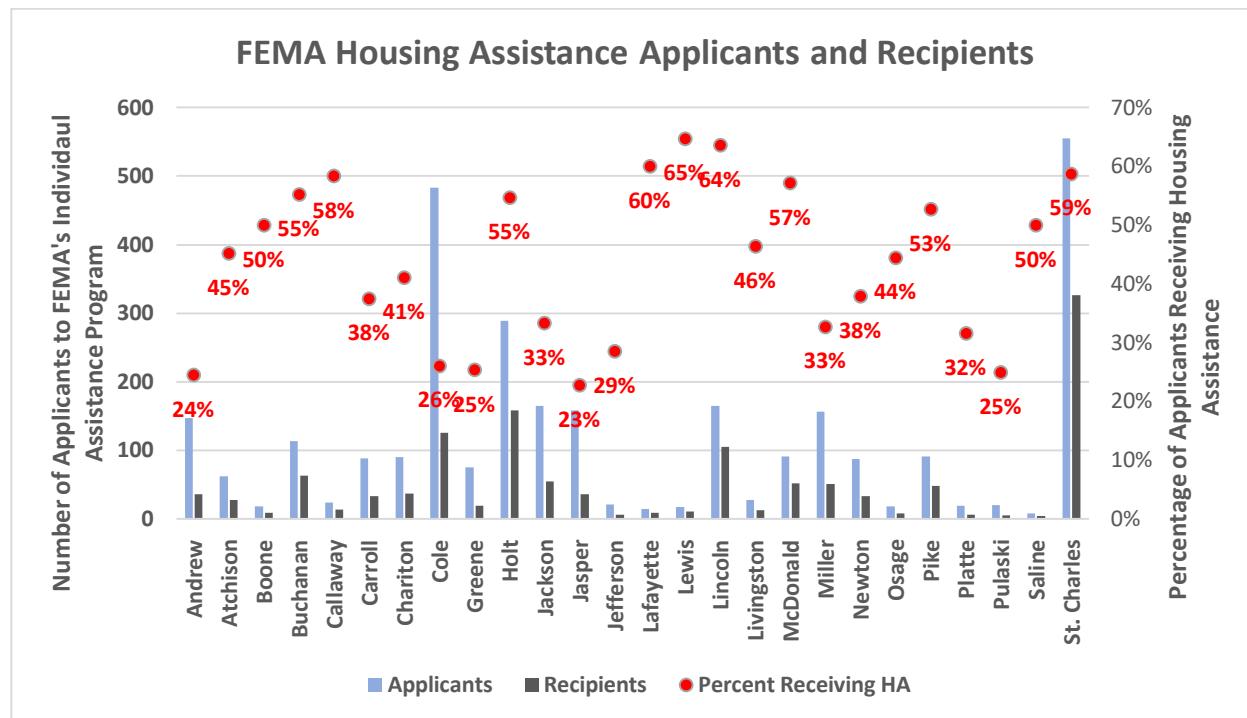


Figure 47. FEMA HA Funds Allocations by County

⁵⁶ Written Testimony of Texas Appleseed for the Texas Senate Committee on Intergovernmental Relations Wednesday, December 2, 2015. https://www.texasappleseed.org/sites/default/files/12-2-15%20Testimony%20of%20Texas%20Appleseed%20-%20IGR%20Charge%203_0.pdf

For this event, like many other Presidential Declared disaster events, a majority of *ineligible* FEMA IA applicants are living at or below federal poverty standards. This fact is very clear in both Cole and St. Charles where 74% and 70% of FEMA IA ineligible applicants have incomes < 80% AMI (Area Median Income) respectively (Table 32). Although lower than the other two MID counties, Holt's LMI ineligible survivors (42%) represent a population with large amounts of potential unmet need. Figure 48 graphically depicts this breakdown where we can see that most ineligible applicants have household incomes below 80% of the AMI.

Table 32. Ineligible applicants by AMI category and county

County	AMI 30% or less	AMI 31- 50%	AMI 51-80%	Percentage Below 80% AMI	Above 80 % AMI	Grand Total
<i>Cole</i>	122	80	62	73.95%	93	357
<i>Holt</i>	29	15	13	43.51%	74	131
<i>St. Charles</i>	56	36	68	69.87%	69	229
<i>Andrew</i>	20	18	11	44.14%	62	111
<i>Atchison</i>	9	4	5	52.94%	16	34
<i>Boone</i>	5	3		88.89%	1	9
<i>Buchanan</i>	13	12	4	56.86%	22	51
<i>Callaway</i>	1	4		50.00%	5	10
<i>Carroll</i>	13	3	9	45.45%	30	55
<i>Chariton</i>	21	3	7	58.49%	22	53
<i>Greene</i>	9	2	5	28.57%	40	56
<i>Jackson</i>	31	19	1	46.36%	59	110
<i>Jasper</i>	17	7	8	26.23%	90	122
<i>Jefferson</i>	4	4	4	80.00%	3	15
<i>Lafayette</i>	2	1	1	66.67%	2	6
<i>Lewis</i>	2		2	66.67%	2	6
<i>Lincoln</i>	24	14	11	81.67%	11	60
<i>Livingston</i>	8		3	73.33%	4	15
<i>McDonald</i>	12	1	10	58.97%	16	39
<i>Miller</i>	37	4	30	67.62%	34	105
<i>Newton</i>	17	6	9	59.26%	22	54
<i>Osage</i>	3	2	2	70.00%	3	10
<i>Pike</i>	18	1	5	55.81%	19	43
<i>Platte</i>		1	9	76.92%	3	13
<i>Pulaski</i>	3	4	4	73.33%	4	15
<i>Saline</i>				0.00%	4	4
Grand Total	476	244	283	58.55%	710	1,713

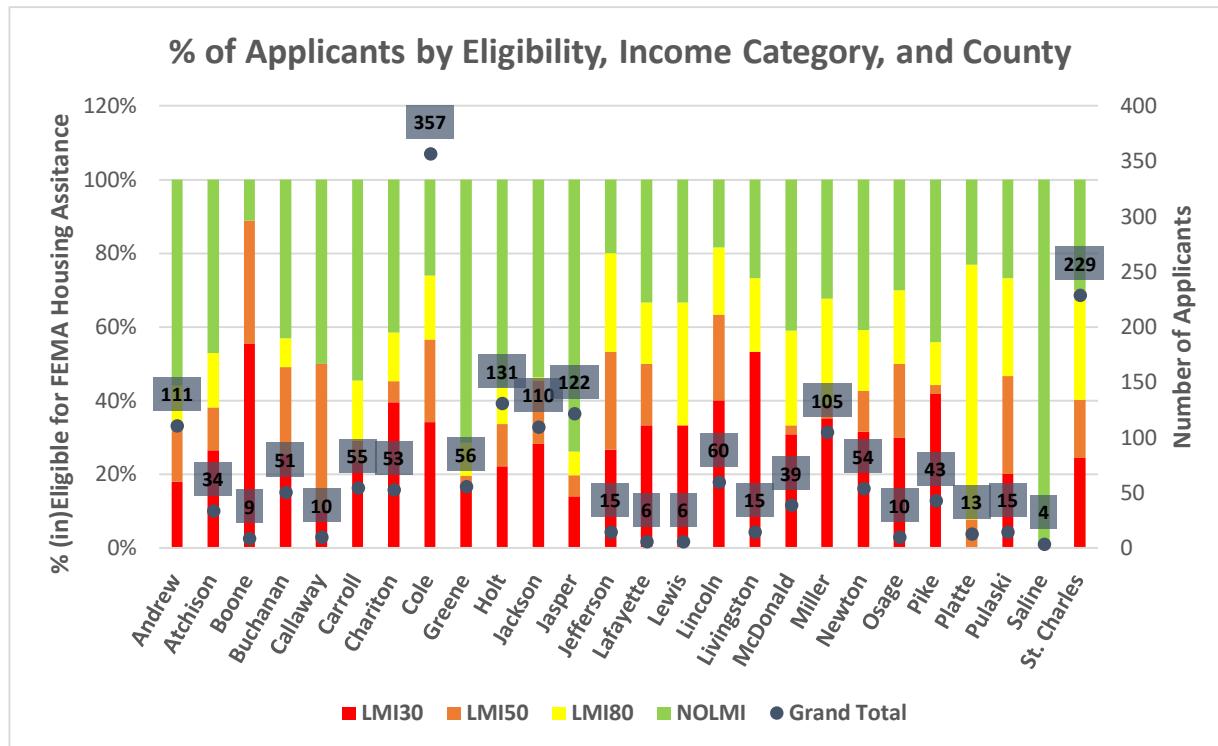


Figure 48. Applicant Summary by Eligibility, Income Category, and County

This significant skew in ineligibility identifies a need to focus on the large population of vulnerable individuals that may need focused outreach and intake assistance to review their eligibility for the CDBG-DR program, especially in areas where FEMA IA assistance was applied for but not provided.

Housing Impact Methodology

Utilizing best available data, the current unmet need for housing in Missouri following the severe storms and flooding of 2019 has been calculated by accounting for losses from multiple datasets, including FEMA's IHP applicant data and SBA's home loan data. It must be noted that the IHP is not intended to return disaster-damaged property to its pre-disaster condition. Rather, IHP is supplemental to other recovery resources. Furthermore, the Housing Assistance (HA) Program within IHP potentially undercounts total damage by design. FEMA's housing program accounts for losses only to "essential rooms"⁵⁷ within a structure. Specifically, FEMA can only provide rent or repair money when there is damage to the living room, dining room, kitchen, bathroom and bedrooms used by occupants of the home, meaning that a home's basement, unused bedrooms, bathrooms, or living areas are not counted in FEMA damage estimates and cannot be repaired using FEMA funds. However, although FEMA data does not provide a complete view of impacts and recovery it often provides the most comprehensive view of impacts. In short, FEMA IHP data has the largest breadth, but does not have comprehensive depth in loss or recovery information.

FEMA's Individuals and Households Program provides repair and replacement assistance aimed at making a home "habitable" whereas SBA awards loan funding for the full cost to restore a home. This difference

⁵⁷ <https://www.fema.gov/news-release/2012/12/18/fema-housing-assistance-based-damage-essential-living-areas>

between programs is important because it highlights a need to move beyond FEMA's initial and large-scale assessment and include specifics on housing losses only available from SBA.

HUD calculates "unmet housing needs" as the number of housing units with unmet needs times the estimated cost to repair those units minus repair funds already provided. However, because complete data sources are often difficult to obtain after a major disaster event, HUD has stated that empirically justified calculations may be used to determine the average cost to fully repair a home. Recent unmet needs assessments have used "the average real property damage repair costs determined by the Small Business Administration for its disaster loan program for the subset of homes inspected by both SBA and FEMA. Because SBA is inspecting for full repair costs, it is presumed to reflect the full cost to repair the home, which is generally more than the FEMA estimates on the cost to make the home habitable."⁵⁸⁵⁹

Multiple recently approved impact assessment methodologies have utilized the SBA estimates of damage and repair needs, FEMA IA Housing Assistance data, and National Flood Insurance (NFIP) data in combination with each other to triangulate the real need as opposed to relying only on FEMA verified losses alone.⁶⁰ Historically, SBA verified disaster-damaged property through on-site inspections by construction analysts who estimated the cost to restore property to its pre-disaster condition; however, since 2017, SBA has used a desktop loss verification process to improve processing times for disaster loan applications.⁶¹ The desktop loss verification process uses an initial loss verification followed by a post desktop review, wherein total damage estimates use a FEMA on-site inspection report for loans under \$25,000; for loans greater than \$25,000, SBA deploys loss verifiers for site inspections to confirm property loss estimates and to capture a more comprehensive cost of repair/replacement in comparison to FEMA's focus essential living areas.⁶² Thus, SBA damage estimates provide a more comprehensive look at recovery than simply looking at FEMA inspected damage. Also, this assessment further accounts for under-representation of impacted populations stemming from FEMA ineligible applicants provides a more accurate accounting of overall housing impact across a study area.

Specifically, for Missouri, FEMA real property loss estimates are significantly lower than SBA property loss estimates across the DR-4451 impact area. The average FEMA real property loss for these storms (Table 33) was \$8,877 based on 1,391 applicants with FEMA verified losses. SBA average verified losses per household were valued at \$60,734 based on 358 applicants and represent a 6.8 times higher verified loss amount than FEMA. SBA median loss value of \$43,011 is 6.8 times higher than FEMA's value of \$658. SBA's average verified personal property losses of \$15,482 per applicant are 13.5 times higher than FEMA's Personal Property Losses (PPFVL) of \$3,173 per applicant.

⁵⁸ Federal Register Vol. 78, No. 43 /Tuesday, March 5, 2013

⁵⁹ <https://www.govinfo.gov/content/pkg/FR-2020-01-27/pdf/2020-01204.pdf>

⁶⁰ http://www.cdbg-dr.pr.gov/wp-content/uploads/ponencias/Puerto_Rico_Action_Plan_Public_for_Comment.pdf, <http://www.floridajobs.org/docs/default-source/2015-community-development/community-revitalization/dr/hcpafloridaactionplanhudapproved.pdf?sfvrsn=2>, <http://www.floridajobs.org/docs/default-source/community-development-files/2018-state-of-florida-cdbg-dr-action-plan-draft.pdf?sfvrsn=2>, https://www.scdr.sc.gov/wp-content/uploads/2017/12/SC-Severe-Storm-Amendment-4-1-1-18_.pdf,

<https://www.scdr.sc.gov/wp-content/uploads/2017/12/SC-Hurricane-Matthew-Action-Plan-Amendment-2.pdf>

⁶¹ <https://www.sba.gov/sites/default/files/oig/SBA-OIG-Report-19-23.pdf>

⁶² <https://www.fema.gov/news-release/2012/12/18/fema-housing-assistance-based-damage-essential-living-areas>

Table 33: FEMA and SBA Damage Estimates

Program	Property Loss (FEMA) (FEMA – Real Property Verified Loss; SBA – Verified Real Estate Damage)				Personal Property Loss (FEMA - Other Needs Assistance; SBA – Verified Contents Damage)			
	Count	Total	Average	Median	Count	Total	Average	Median
FEMA Individual Assistance	1,391	\$12,348,433	\$8,877	\$3,173	931	\$2,317,911	\$2,490	1,773
SBA Disaster Home Loan Program	358	\$21,742,679	\$60,734	\$43,011	329	\$6,770,569	\$20,579	\$14,051

Several considerations are factored in to arrive at a more comprehensive picture for this estimated unmet need. First, applying the average SBA verified loss amount (\$60,734) of all SBA applicants with real property losses (358) to those who were disqualified or turned down for SBA loan assistance and those for whom a FEMA loss was established would push the full extent of housing impact caused by this disaster to nearly \$2 Million (before accounting for an increase in rebuilding for resilience or deductions for funds already provided). Utilizing the median SBA real property damage amount of \$43,011 accounts for outliers in the SBA data (a few very high and very low damage amounts) driving the average SBA loss up. Applying the median SBA property loss amount of \$43,011 to the total number of SBA applicants who did not have a verified loss estimated, in conjunction with DR4451 specific rebuilding cost, outlined in federal register language,⁶³ provides a more complete estimate of unmet housing needs for those without a determined real property loss, provides a more conservative and realistic view of losses to residential property across the impact area. Utilizing the unmet needs values from HUD discussed below, and FEMA data about the number of applicants (more than 3,000) results in an unadjusted housing impact of \$73,258,657. Methods for creating housing impacts and unmet needs are discussed below.

Housing impacts for this unmet needs assessment were calculated using SBA data in conjunction with FEMA applicant information. We begin (Table 34) by utilizing the known real property (repair) losses from SBA for the 358 applicants for which this value is determined (A). Included here are also an estimate (B) of losses for those SBA applicants without an SBA real estate verified loss. Combined these SBA derived losses are more than \$37.3 million (C).

Table 34. SBA Verified Losses

Id	Line Item	Count	Value
A	SBA applicants with a real estate verified loss	358	\$21,742,679
B	SBA applicants without a real estate verified Loss (Estimate)	364	\$15,655,982
C	Total verified loss of SBA Applicants (Estimate)	722	\$37,398,661

A more nuanced approach is required to account for FEMA non-renter (owner or “not specified”) applicants who are not represented by SBA data alone. Here, “not specified” non-renter populations are those who have neither indicated ownership nor renter status when applying for FEMA Individual Assistance support. First, all FEMA applicant real property losses were categorized based on HUD’s

⁶³<https://www.govinfo.gov/content/pkg/FR-2020-01-27/pdf/2020-01204.pdf>

definitions of damage levels (Minor-Low to Severe) shown in Table 35. Utilizing loss value cutoffs and rebuild cost estimates provided in the federal register can provide a clearer understanding of losses across the Presidential declared individual assistance counties.⁶⁴

Table 35: HUD defined damage categories based on real property losses

Damage Category	Associated Real Property Losses
<i>Minor-Low</i>	Less than \$3,000 of FEMA inspected real property damage.
<i>Minor-High</i>	\$3,000 to \$7,999 of FEMA inspected real property damage.
<i>Major-Low</i>	\$8,000 to \$14,999 of FEMA inspected real property damage and/or 1 to 3.9 feet of flooding on the first floor.
<i>Major-High</i>	\$15,000 to \$28,800 of FEMA inspected real property damage and/or 4 to 5.9 feet of flooding on the first floor.
<i>Severe</i>	Greater than \$28,800 of FEMA inspected real property damage or determined destroyed and/or 6 or more feet of flooding on the first floor.

Table 36 shows the breakdown of estimated losses to those not accounted for in SBA's loan dataset. Rows (A – E) represent owner losses by HUD classified Minor-Low to Severe damage level categories for those owner applicants with FEMA personal property verified losses but without FEMA real property verified losses. Here, FEMA real property verified losses were classified into updated HUD designated unmet needs categories outlined in the federal register (Table 36).⁶⁵ HUD guidance outlines the process of determining repair costs by damage category as:

“The average cost to fully repair a home for a specific disaster to code within each of the damage categories noted above is calculated using the median real property damage repair costs determined by the SBA for its disaster loan program for the subset of homes inspected by both SBA and FEMA for each eligible disaster.”⁶⁶

Following this guidance, total damage estimates for each federal register specified damage category were derived from SBA estimates of median home loan for rebuild/replace/relocate (Table 37). An estimate of additional potential un-met needs populations (I) was generated by subtracting the total SBA applicants

⁶⁴ [https://files.hudexchange.info/resources/documents/FR-6182-N-01-Allocation-Notice-CDBG-DR-Grantees.pdf?utm_source=HUD+Exchange+Mailing+List&utm_campaign=01e5f52f10-EMAIL CAMPAIGN 2020 01 17 10 30&utm_medium=email&utm_term=0_f32b935a5f-01e5f52f10-19420561](https://files.hudexchange.info/resources/documents/FR-6182-N-01-Allocation-Notice-CDBG-DR-Grantees.pdf?utm_source=HUD+Exchange+Mailing+List&utm_campaign=01e5f52f10-EMAIL%20CAMPAIGN%202020%2001%2017%2010%2030&utm_medium=email&utm_term=0_f32b935a5f-01e5f52f10-19420561)

⁶⁵ <https://www.gpo.gov/fdsys/pkg/FR-2018-08-14/pdf/2018-17365.pdf>

⁶⁶ [https://files.hudexchange.info/resources/documents/FR-6182-N-01-Allocation-Notice-CDBG-DR-Grantees.pdf?utm_source=HUD+Exchange+Mailing+List&utm_campaign=01e5f52f10-EMAIL CAMPAIGN 2020 01 17 10 30&utm_medium=email&utm_term=0_f32b935a5f-01e5f52f10-19420561, Page 35](https://files.hudexchange.info/resources/documents/FR-6182-N-01-Allocation-Notice-CDBG-DR-Grantees.pdf?utm_source=HUD+Exchange+Mailing+List&utm_campaign=01e5f52f10-EMAIL%20CAMPAIGN%202020%2001%2017%2010%2030&utm_medium=email&utm_term=0_f32b935a5f-01e5f52f10-19420561, Page 35)

(H) accounted for in SBA verified losses Table 34 from the sum of the total owner or “not-specified” applicants without a FEMA verified loss (F) and the number of SBA applicants without a FEMA registrant number (G). This potential unmet need applicant count (I) is then multiplied by the rebuild cost for minor-low damaged properties (\$1,775) (K) presuming that these victims only registered with FEMA because they sustained damage from the storm. Summing values for Lines A – I produces estimated losses for those applicants not represented by SBA (K). Estimated total losses of \$63.6 Million (L) to homeowners is derived by summing this value (K) with losses from SBA data alone and including additional costs associated with increased resilience of 30% (Table 36 Line E).

Table 36: Estimated Damage to Owner Applicant Dwellings

Id	Line Item	Count	Value
A	FEMA “owner” or “non-specified” applicants in HUD <i>Minor-Low</i> damage category	367	\$651,425
B	FEMA “owner” or “non-specified” applicants in HUD <i>Minor-High</i> damage category	96	\$817,344
C	FEMA “owner” or “non-specified” applicants in HUD <i>Major-Low</i> damage category	385	\$4,115,650
D	FEMA “owner” or “non-specified” applicants in HUD <i>Major-High</i> damage category	316	\$5,726,552
E	FEMA “owner” or “non-specified” applicants in HUD <i>Severe</i> damage category	245	\$14,625,520
F	Total owner or "not specified" applicants without a FEMA Verified Property Loss	862	
G	Number (count) of SBA Applicants without a FEMA Registrant ID	23	
H	Total SBA Housing Loan Applicants	722	
I	Potential additional unmet need population	163	289,325
J	Minor-Low Rebuilt Cost	\$1,775	
K	Losses of FEMA applicants not represented by SBA data (Estimate)	1,712	\$26,225,816
L	Total verified loss of all homeowner applicants across FEMA and SBA (Estimate)		\$63,624,477

Table 37: HUD and estimated unmet needs based on real property derived damage category

Category of Real Property Damage	Count of Owner or “Other” Applicants with FEMA verified Real Property Losses	Count of Renter Applicants with FEMA verified Personal Property Losses	SBA Derived Repair Costs (HUD Method)
<i>Minor Low</i>	367	75	\$1,775
<i>Minor High</i>	96	31	\$8,514
<i>Major Low</i>	385	117	\$10,690
<i>Major High</i>	316	113	\$18,122
<i>Severe</i>	245	41	\$59,696
<i>No Damage Indicated</i>	862	356	\$19,759

A similar method as above was utilized to capture impacts to affected renter applicants (Table 39). Damage categories for renter occupied units were derived using a similar method applied only to personal property impacts (PPFVL) as documented in FEMA's IHP dataset (Table 38). Impacts and support for personal property is used in the case of renter applicants because FEMA does not inspect rental units for real property damage.⁶⁷ Lines A-E represent a breakdown of renter losses by HUD classified Minor-Low to Severe damage levels for those applicants with documented PPFVL but without FEMA real property verified losses. Here, FEMA PPFVL values were classified into HUD designated categories based on federal registry classifications. Damage estimates were derived by multiplying counts of applicants (by damage category) by HUD provided estimates (Table 37). An estimate of potential unmet needs populations (H) was generated by subtracting a count of SBA applicants who received funds to support rental repair (landlords) (G) from the total FEMA renter applicants without personal property (contents) loss (F). This potential unmet need applicant count is then multiplied by the minor-low repair value (I) and summed with values (A-E) to create an estimated loss for all home renter applicants (J).

Table 38: Renter-Occupied Personal Property Damage Categories and Values

Damage Category	Associated Real Property Losses
<i>Minor-Low</i>	Less than \$1,000 of FEMA inspected personal property damage.
<i>Minor-High</i>	\$1,000 to \$1,999 of FEMA inspected personal property damage.
<i>Major-Low</i>	\$2,000 to \$3,499 of FEMA inspected personal property damage or 1 to 4 feet of flooding on the first floor.
<i>Major-High</i>	\$3,500 to \$7,499 of FEMA inspected personal property damage or 4 to 6 feet of flooding on the first floor.
<i>Severe</i>	Greater than \$7,500 of FEMA inspected personal property damage or determined destroyed and/or 6 or more feet of flooding on the first floor.

Table 39: Estimated Damage to Renter Applicant Dwellings

<i>Id</i>	Line Item	Count	Value
A	FEMA "renter" applicants in HUD Minor-Low damage category	75	\$133,125
B	FEMA "renter" applicants in HUD Minor-High damage category	31	\$263,934
C	FEMA "renter" applicants in HUD Major-Low damage category	117	\$1,250,730
D	FEMA "renter" applicants in HUD Major-High damage category	113	\$2,047,786

⁶⁷ Counts of damaged units are likely conservative because applicant level flood depth information was not utilized in this assessment.

E	FEMA "renter" applicants in HUD Severe damage category	41	\$2,447,536
F	Total renter applicants without a FEMA Contents Loss	356	631,900
G	Total SBA business applicants with verified repair, reconstruction, or relocation losses (rental NAICS code)	15	2,876,402
H	Potential Unmet Needs Population	341	\$605,275
I	Minor-Low Rebuilt Cost		\$1,775
J	Total verified loss of rental property (Estimated)	1,089	\$9,651,413

Totaling across all areas reveals total housing verified losses of at least \$73,275,890. Accounting for 30% in additional costs associated with necessary resilience measures such as more stringent building codes, cost of compliance measures, elevations, or freeboard requirements increases the total estimate of damages to more than \$95,258,657 (Table 40).

Table 40: Total Estimated Losses

<i>Total Housing Verified Loss</i>	\$73,275,890
Accounting for 30% resilience costs	\$95,258,657

Accounting for insurance, loans, and other recovery resources (Table 41) depicts the total benefit provided to DR-4451 victims to date. Here, more than \$16 million across federal, state, and local resources have been provided. Unfortunately, recovery funds provided to date still leave a large unmet housing need of greater than \$79 Million (Table 42).

Table 41: Sources and amounts of recovery funds (to date)

Id	Service	Count	Value
A	FEMA housing assistance payments	1,291	6,119,524
B	SBA home loan current real estate repair payments	195	5,832,700
C	SBA home loan current relocation payments	5	436,700
D	SBA home loan current reconstruction payments	21	2,199,200
E	SBA business loan payments to landlords	6	445,000
F	NFIP building payments	118	\$983,189
G	Total Benefit		\$16,016,313

Table 42: Dr-4451, Unmet Housing Needs

<i>Total Unmet Housing Need to Pre-Storm Standards</i>	\$57,259,577
<i>Accounting for 30% resilience costs</i>	\$79,242,344

Infrastructure Impact

Infrastructure systems affected by floods and severe weather included damage to dams, roadways, bridges, barge and boat traffic, and agricultural systems. The immediate recovery efforts were well-documented by the RSS and by the initial project worksheets being submitted for Public Assistance, including from reports by the Missouri Flood Recovery Advisory Working Group.

Levees

Levees along numerous waterways were heavily damaged by floodwaters throughout 2019 in Missouri, prompting the U.S. Army Corps of Engineers to open a period of emergency levee rehabilitation program funding expected to last two years.⁶⁸ Though USACE does not expect levee rehabilitation to commence before Spring 2020, about 105 requests for levee rehabilitation assistance were submitted to the Kansas City District office by mid-August 2019 while flooding continued on the Little Osage and Missouri Rivers, including at St. Joseph, Napoleon, and Miami, Missouri.⁶⁹ The USACE Kansas City District performed emergency repairs and inspections of levee systems in Missouri, noting that some 66 levee systems were overtopped during 2019, and of those 45 levee systems breached. Through August 2019, USACE placed rocks along stream banks to prevent unabated floodwater flows across the floodplains of Mill Creek and Big Tarkio River, running roughly from Cass County to Holt County, where a large breach prompted emergency evacuations at Craig in June. Though not specifically covered by FEMA's Public Assistance program, the USACE levee rehabilitation program, established under Public Law 84-99, will cover levee repairs for damages incurred from March 2019 through December 2019.⁷⁰

Transportation

Widespread severe flooding and debris damage in 2019 caused numerous roads and bridges to fail throughout the state. In Holt County, about 11 roads remained closed in June, following a first round of closures in March and a second round in May.⁷¹ Comprehensive road closure information remains elusive due to the emergency nature of response activities throughout the state that required impromptu solutions, though some counties utilized well-established response plans for Missouri River flood scenarios. However, the Missouri Department of Transportation is noted to have observed closures on about 470 routes in 114 counties between April 29 and June 14, 2019, including wash-outs of railroad tracks, suspension of rail and Amtrak services, airport closures, and disruptions of barge traffic on the Missouri River as navigation was suspended.^{72,73} By October 2019, 341 sites were identified for repairs on

⁶⁸ <https://www.nwk.usace.army.mil/Missions/Emergency-Management/Levee-Rehabilitation/>

⁶⁹ <https://www.nwd.usace.army.mil/Media/News-Releases/Article/1936883/weekly-missouri-basin-flood-response-update-for-key-stakeholders-815/>

⁷⁰ <https://usace.contentdm.oclc.org/utils/getfile/collection/p16021coll7/id/12999>

⁷¹ <http://holtcounty.org/index.php/flooding/>

⁷²

[https://transportation.house.gov/imo/media/doc/Waters%20Testimony%20\(MO%20Levee%20and%20Drainage\).pdf](https://transportation.house.gov/imo/media/doc/Waters%20Testimony%20(MO%20Levee%20and%20Drainage).pdf)

⁷³ <https://dnr.mo.gov/floodrecovery/docs/2019-10-17-frawg-ppt.pdf>

state highways and roads, with an estimate of more than \$42 million in repair costs; further, detour costs along the Interstate 29 corridor were estimated at almost \$104 million to passenger, commercial, and recreational traffic.⁷⁴ In fact, the 187-mile closure of Interstate 29 between St. Joseph and Omaha, NE was the largest closure of an interstate highway in the history of the interstate system.⁷⁵ Damage to rail transportation systems was estimated to be about \$40.5 million, impacts to air transportation including facility damages and economic losses of about \$16.5 million, and damages and losses to water transportation about \$181 million for at least 7 ports.⁷⁶ On the Mississippi River, St. Charles County reported about 11 road closures on March 30, 2020, including the closure of the Lakeview Drive subdivision at Highway B.⁷⁷ In the Missouri River floodplain counties of the northwest portion of the state, the Missouri Department of Transportation noted about 48 roads remain closed due to flooding, including the following roads as of April 8, 2020 (Table 43):⁷⁸

Table 43: Dr-4451, Roads closed due to severe storms

ROAD NAME	COUNTY	ROAD NAME	COUNTY
MO 111 N HOLT	Holt	RT D S CAPE GIRARDEAU	Cape Girardeau
MO 111 S ATCHISON	Atchison	RT E E ATCHISON	Atchison
MO 162 E NEW MADRID	New Madrid	RT E N PERRY	Perry
MO 162 W NEW MADRID	New Madrid	RT E S PERRY	Perry
MO 77 N MISSISSIPPI	Mississippi	RT E W ATCHISON	Atchison
MO 77 S MISSISSIPPI	Mississippi	RT P E NEW MADRID	New Madrid
MO 80 E MISSISSIPPI	Mississippi	RT P N PIKE	Pike
MO 80 W MISSISSIPPI	Mississippi	RT P S PIKE	Pike
MO 86 E NEWTON	Newton	RT P W NEW MADRID	New Madrid
MO 86 W NEWTON	Newton	RT U N ATCHISON	Atchison
RT AA E JEFFERSON	Jefferson	RT U S ATCHISON	Atchison
RT AA W JEFFERSON	Jefferson	RT V E ATCHISON	Atchison
RT AB N NEW MADRID	New Madrid	RT V W ATCHISON	Atchison
RT AB S NEW MADRID	New Madrid	RT W N HOLT	Holt
RT BB E ATCHISON	Atchison	RT W S HOLT	Holt
RT BB W ATCHISON	Atchison	RT WW E NEW MADRID	New Madrid
RT C E BARRY	Barry	RT WW W NEW MADRID	New Madrid
RT C W BARRY	Barry	RT Z E ATCHISON	Atchison
RT D N ATCHISON	Atchison	RT Z N WRIGHT	Wright

⁷⁴ <https://dnr.mo.gov/floodrecovery/docs/2019-10-17-frawg-ppt.pdf>

⁷⁵ <https://dnr.mo.gov/floodrecovery/docs/2019-11-22-frawg-ppt.pdf>

⁷⁶ <https://dnr.mo.gov/floodrecovery/docs/2019-10-17-frawg-ppt.pdf>

⁷⁷ <https://www.sccmo.org/1512/Road-Other-Closures---Flood>

⁷⁸ <http://traveler.modot.org/report/modottext.aspx?type=flood>

RT D N CAPE GIRARDEAU	Cape Girardeau	RT Z S WRIGHT	Wright
RT D S ATCHISON	Atchison	RT Z W ATCHISON	Atchison

Water & Wastewater Systems

Of the 32 drinking water systems and 71 wastewater systems impacted by flooding and severe weather, there were no lengthy closures.⁷⁹ A water main break at Lexington, Missouri could not be fixed for a little over one week, and a volunteer organization, Convoy of Hope, supplied drinking water to residents until the main was repaired. Holt County and the Methodist Church in Fortescue also provided bottled water to residents without water, and Holt County EMA recommended Tdap and tetanus vaccinations for residents returning to flooded areas.⁸⁰ All systems were rapidly restored and remain operational.

Public Assistance

The FEMA Public Assistance (FEMA-PA) Program is designed to provide immediate assistance to impacted jurisdictions for emergency protective measures and permanent repairs to infrastructure and community facilities. The Federal share of assistance is generally not less than 75% of the eligible project cost, requiring the state to contribute the remaining 25% in cost share.

The Public Assistance Program for DR-4451 identified \$1,072,485 and \$3,897,876 in public assistance for Category A (Debris removal) and Category B (Emergency protective measures), respectively (Table 44).

Table 44. Public Assistance Category A and B totals by county⁸¹

County	Category A- Debris Removal		Category B - Emergency Protective Measure		Total of Category A & B	
	Number of Projects	Total Project Amount	Number of Projects	Total Project Amount	Number of Projects	Total Project Amount
Cole			213	\$384,817	213	\$384,817
Holt	99	\$33,096	108	\$8,638	207	\$41,733
St. Charles			70	\$56,066	70	\$56,066
Barry			224	\$3,462	224	\$3,462
Boone	241	\$35,480			241	\$35,480
Buchanan	161	\$179,041			161	\$179,041
Cape Girardeau	153	\$123,945	59	\$67,964	212	\$191,909
Carroll	5	\$11,900	9	\$12,773	14	\$24,672
Chariton	50	\$3,365	36	\$15,351	86	\$18,716
Gasconade			299	\$6,468	299	\$6,468

⁷⁹ <https://dnr.mo.gov/floodrecovery/docs/2019-08-27-frawg-ppt.pdf>

⁸⁰ <http://holtcounty.org/index.php/flooding/>

⁸¹ Data collected 4/5/2020 from <https://www.fema.gov/openfema-dataset-public-assistance-funded-projects-details-v1>

County	Category A- Debris Removal		Category B - Emergency Protective Measure		Total of Category A & B	
	Number of Projects	Total Project Amount	Number of Projects	Total Project Amount	Number of Projects	Total Project Amount
Jackson	210	\$5,000			210	\$5,000
Lewis			240	\$13,699	240	\$13,699
Lincoln	219	\$8,255			219	\$8,255
Marion	230	\$25,189			230	\$25,189
Mississippi	386	\$60,769	491	\$284,274	877	\$345,043
Montgomery	119	\$11,761			119	\$11,761
New Madrid			10	\$8,977	10	\$8,977
Perry			62	\$1,269,287	62	\$1,269,287
Pike	140	\$23,641	203	\$20,732	343	\$44,373
Pulaski	27	\$8,366			27	\$8,366
Ray	136	\$74,975	445	\$1,380,290	581	\$1,455,265
Scott	177	\$111,774			177	\$111,774
Ste. Genevieve	154	\$11,000	200	\$51,133	354	\$62,133
Stoddard	346	\$15,967			346	\$15,967
Taney	34	\$10,126			34	\$10,126
Webster	25	\$12,982	20	\$9,454	45	\$22,436
Statewide	51	\$305,855	304	\$304,491	355	\$610,346
Grand Total	2,963	\$1,072,485	2,993	\$3,897,876	5,956	\$4,970,361

Additionally, the state has identified 12,667 projects across 34 counties totaling \$12,398,563 in public assistance need for Categories C-G (permanent repair) to date in the state-assessed counties (Table 45). These categories include:

- Category C: Roads and Bridges
- Category D: Water Control Facilities
- Category E: Buildings and Equipment
- Category F: Utilities
- Category G: Parks, Recreational Facilities, and Other Facilities

Based on this data, and because applicants must prove where the 25% cost share will be covered from before any application is approved, the state should have no unmet need for public assistance projects. For the sake of understanding a potential, unprecedented worst-case scenario, if the counties were to have zero (\$0) matching funds for these projects the residual between total project amount and federal obligated share obligated would represent a potential unmet need of \$3,099,641 for identified infrastructure damage eligible under FEMA-PA Categories C-G (Table 46).

Table 45. Public Assistance Categories G-G totals by county⁸²

⁸² <https://www.fema.gov/openfema-dataset-public-assistance-funded-projects-details-v1>

County	C - Roads and Bridges	D - Water Control Facilities	E - Public Buildings	F - Public Utilities	G - Recreational or Other	Grand Total
<i>Cole</i>						
<i>Holt</i>	\$29,025	\$1,578,140			\$26,443	\$1,633,609
<i>St. Charles</i>						
<i>Adair</i>				\$5,684		\$5,684
<i>Andrew</i>	\$4,620					\$4,620
<i>Atchison</i>	\$616,329					\$616,329
<i>Barry</i>	\$41,457					\$41,457
<i>Bates</i>	\$203,617					\$203,617
<i>Bollinger</i>	\$149,625					\$149,625
<i>Buchanan</i>	\$69,455					\$69,455
<i>Caldwell</i>	\$713,187					\$713,187
<i>Cape Girardeau</i>	\$142,366				\$5,000	\$147,366
<i>Carroll</i>	\$53,841		\$12,355			\$66,196
<i>Chariton</i>	\$12,299					\$12,299
<i>Daviess</i>	\$459,664			\$841,230		\$1,300,894
<i>Dunklin</i>	\$266,308					\$266,308
<i>Gasconade</i>	\$29,738		\$31,706		\$83,912	\$145,356
<i>Grundy</i>	\$14,623					\$14,623
<i>Harrison</i>	\$10,509					\$10,509
<i>Henry</i>	\$42,276			\$6,232		\$48,508
<i>Lewis</i>	\$291,288		\$12,598	\$4,627		\$308,513
<i>Mississippi</i>	\$943,200	\$146,432				\$1,089,633
<i>New Madrid</i>	\$6,748			\$87,111	\$11,700	\$105,559
<i>Ozark</i>	\$101,026					\$101,026
<i>Pemiscot</i>	\$496,441			\$1,083,708		\$1,580,150
<i>Perry</i>	\$51,180	\$16,433				\$67,612
<i>Pike</i>		\$4,468				\$4,468
<i>Pulaski</i>	\$5,279					\$5,279
<i>Ray</i>	\$27,089					\$27,089
<i>Scott</i>	\$76,070					\$76,070
<i>St. Louis (city)</i>					\$4,281	\$4,281
<i>Ste. Genevieve</i>	\$154,358					\$154,358
<i>Taney</i>					\$10,418	\$10,418
<i>Texas</i>	\$7,513					\$7,513
<i>Webster</i>	\$179,017					\$179,017
<i>Statewide</i>	\$92,870			\$3,135,065		\$3,227,936
Grand Total	\$5,291,019	\$1,745,473	\$56,659	\$5,163,658	\$141,754	\$12,398,563

Table 46. Potential infrastructure unmet need

County	Grand Total	Total Federal Obligation	Local Match (Potential Unmet Need)
<i>Cole</i>			
<i>Holt</i>	\$1,633,609	\$1,225,206	\$408,402
<i>St. Charles</i>			
<i>Adair</i>	\$5,684	\$4,263	\$1,421
<i>Andrew</i>	\$4,620	\$3,465	\$1,155
<i>Atchison</i>	\$616,329	\$462,247	\$154,082
<i>Barry</i>	\$41,457	\$31,093	\$10,364
<i>Bates</i>	\$203,617	\$152,713	\$50,904
<i>Bollinger</i>	\$149,625	\$112,219	\$37,406
<i>Buchanan</i>	\$69,455	\$52,091	\$17,364
<i>Caldwell</i>	\$713,187	\$534,890	\$178,297
<i>Cape Girardeau</i>	\$147,366	\$110,524	\$36,841
<i>Carroll</i>	\$66,196	\$49,647	\$16,549
<i>Chariton</i>	\$12,299	\$9,225	\$3,075
<i>Daviess</i>	\$1,300,894	\$975,670	\$325,223
<i>Dunklin</i>	\$266,308	\$199,731	\$66,577
<i>Gasconade</i>	\$145,356	\$109,017	\$36,339
<i>Grundy</i>	\$14,623	\$10,967	\$3,656
<i>Harrison</i>	\$10,509	\$7,882	\$2,627
<i>Henry</i>	\$48,508	\$36,381	\$12,127
<i>Lewis</i>	\$308,513	\$231,385	\$77,128
<i>Mississippi</i>	\$1,089,633	\$817,224	\$272,408
<i>New Madrid</i>	\$105,559	\$79,169	\$26,390
<i>Ozark</i>	\$101,026	\$75,770	\$25,257
<i>Pemiscot</i>	\$1,580,150	\$1,185,112	\$395,037
<i>Perry</i>	\$67,612	\$50,709	\$16,903
<i>Pike</i>	\$4,468	\$3,351	\$1,117
<i>Pulaski</i>	\$5,279	\$3,959	\$1,320
<i>Ray</i>	\$27,089	\$20,317	\$6,772
<i>Scott</i>	\$76,070	\$57,052	\$19,017
<i>St. Louis (city)</i>	\$4,281	\$3,211	\$1,070
<i>Ste. Genevieve</i>	\$154,358	\$115,768	\$38,589
<i>Taney</i>	\$10,418	\$7,813	\$2,604
<i>Texas</i>	\$7,513	\$5,635	\$1,878
<i>Webster</i>	\$179,017	\$134,263	\$44,754
<i>Statewide</i>	\$3,227,936	\$2,420,952	\$806,984
<i>Grand Total</i>	\$12,398,563	\$9,298,922	\$3,099,641

HMGP and Resilience

The Hazard Mitigation Grant Program (HMGP) will be a critical part of long-term resilience improvements for infrastructure in the impacted area. According to FEMA,

“Federal funding under the HMGP is available following a major disaster declaration if requested by the Governor. HMGP funding is allocated using a “sliding scale” formula based on the percentage of funds spent on Public and Individual Assistance for each Presidential declared disaster. For States with a FEMA-approved Standard State Mitigation Plan, the formula provides for up to 15% of the first \$2 billion of estimated aggregate amounts of disaster assistance, up to 10% for amounts between \$2 billion and \$10 billion, and 7.5% for amounts between \$10 billion and \$35.333 billion. For States with a FEMA-approved Enhanced Mitigation Plan, up to 20% of the total of Public and Individual Assistance funds authorized for the disaster (up to \$35.333 billion of such assistance) are available.”⁸³

Because Missouri currently has a FEMA-approved Enhanced State Hazard Mitigation Plan^{84,85} and not a Standard Mitigation plan, the percentage of available HMGP funding should be calculated at 20% of the total amount of IA and PA allocated to a disaster event. As of July 17, 2020, FEMA has allocated \$7,447,658.89 in Individual Assistance and \$24,977,166.92 in Public Assistance.⁸⁶ Therefore, the amount available for mitigation and resilience activities statewide will likely be between \$6.4 and \$7 million.

Then, calculating that HMGP assistance to any jurisdiction is capped at 75% of the identified need (the remaining 25% being a required local match), it can be assumed that Missouri’s state and local jurisdictions will be required to provide between \$1.6 and \$1.85 million in local match, representing an unmet need for resilience improvements. The HMGP process is in its initial stages at this time and will be rolled out over the coming months.

Existing Efforts by Missouri CDBG Non-Entitlement Program

The State of Missouri’s Community Development Block Grant (CDBG) Program, operated by Missouri’s Department of Economic Development, is expected to receive an annual allocation of \$23,292,211 from HUD in 2020. The Program is dedicating approximately \$15.9 million of this to community infrastructure activities such as water, sewer, roads, drainage, or other eligible infrastructure activities. The remaining program funds, excluding state & local planning and administrative costs, include \$3.6 million for community facilities, and \$2 million for industrial infrastructure.

⁸³ https://www.fema.gov/media-library-data/1521210872717-2a5eb11ea35808dc1f0a4965b1e3944f/Hazard_Mitigation_Grant_Program_Pamphlet.pdf

⁸⁴ <https://www.fema.gov/hazard-mitigation-plan-status>

⁸⁵ https://sema.dps.mo.gov/docs/programs/LRMF/mitigation/MO_Hazard_Mitigation_Plan2018.pdf

⁸⁶ <https://www.fema.gov/disaster/4451>

Economic Impact

Business & Employment

HUD describes methods for determining serious unmet economic revitalization needs using a count of businesses falling within each of several damage categories (Table 47). The HUD method requires first, a calculation of damage to real estate (repair, rebuild, relocate) and contents (machinery, furniture, inventory). Each SBA application is then classified into one of five categories based on this estimate of damage and the median damage for each category is produced from these groupings.

Table 47. Summary of SBA applicants based on Federal Register serious unmet economic needs.

HUD Cat	Damage	Count of all SBA Applicants	Median Damage	Percentage of All Businesses
Category 1	< \$12,000	9	\$4,870	8.82%
Category 2	\$12,000 - \$29,999	8	\$18,512	7.84%
Category 3	\$30,000 - \$64,999	11	\$35,012	10.78%
Category 4	\$65,000 - \$149,999	9	\$104,682	8.82%
Category 5	>= 150000	18	\$264,211	17.65%
Category 0	No Losses	47		46.08%
Grand Total		102		

Then, a count of those SBA applicants who were either declined loan assistance or had applications in process at the time of the data collection⁸⁷ represents the unmet needs for the business community. These counts are multiplied by the median damage to gain perspective on possible unmet needs (Table 48). According to this method, serious unmet business needs for flood, tornado, and severe weather amount to about \$7.9 million.

Table 48. Estimate of SBA applicants either denied a loan or in process based on Federal Register serious unmet economic needs.

HUD Cat	Damage	Count of all SBA Applicants	Median Loss	Federal Register Estimate of Unmet Need
Category 1	< \$12,000	9	\$4,870	\$43,830
Category 2	\$12,000 - \$29,999	8	\$18,512	\$148,096
Category 3	\$30,000 - \$64,999	11	\$35,012	\$385,132
Category 4	\$65,000 - \$149,999	9	\$104,682	\$942,138
Category 5	>= 150000	18	\$264,211	\$4,755,798
No Category		47	\$35,012	\$1,645,564

⁸⁷ 8/15/2019

Grand Total		102		\$7,920,558
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The impacts and unmet needs caused by 2019's floods, tornadoes, and severe weather in business are greatly underestimated using this method as it fails to account for the possibility that people/businesses have been impacted and have not recovered but are choosing not to shoulder debt for this recovery. For this reason, we take a modified approach to understand, more completely, impacts, support, and unmet needs for the business community.

As of April 9, 2020, the Small Business Administration (SBA) has issued \$740,600 in Business and Economic Injury Disaster Loans (EIDL) to the state impacted area covered in this assessment.⁸⁸ The three most impacted counties—Cole, Holt, and St. Charles—had more than 44 SBA business loan applications, while the remaining 23 counties had 50 applicants (Table 49). Entities such as small businesses, small agricultural cooperatives, and most private nonprofit organizations in disaster impacted areas may apply for low-interest EIDL loans to assist with operating expenses and working capital. The Business Physical Disaster Loss loans are available for machinery, equipment, and other real-property damages.

Utilizing all SBA business data rather than a subset of declined businesses to understand the financial impact to livelihoods provides a more comprehensive understanding of impacts and recovery across the state. The small business administration makes low cost disaster loans available to qualified businesses. A summary of SBA applicants (Table 49) shows that on 24 of the 94 applicants were approved, a majority (44) were declined or not recommended, and 42 were withdrawn. According to SBA business loan information, approximately 109 applicants had a verified property loss of \$4.8 million. The average verified loss for all applicants was \$127,707. Utilizing the general methodology put forth for the housing impact and unmet needs enables us to identify the true impact and possible extra estimated impacts for businesses who did not qualify for loans.

Table 49. Small Business Administration Applicants by County

County	Number of SBA Applicants	Approved	Declined / Not Recommended	Withdrawn
Cole	10	2	2	6
Holt	12	3	6	3
St. Charles	22	7	9	6
Andrew	3	1	0	2
Atchison	5	1	2	2
Boone	1	0	1	0
Buchanan	4	0	2	2
Callaway	2	1	1	0
Carroll	3	0	1	2
Chariton	0	1	2	3
Greene	2	0	0	2
Jackson	9	3	4	2

⁸⁸ SBA Business Application Report, 4/6/2020

Jasper	1	0	1	0
Jefferson	1	0	1	0
Lafayette	2	2	0	0
Lewis	0	1	2	3
Lincoln	2	0	1	1
Livingston	2	0	2	0
McDonald	5	1	2	2
Miller	1	0	1	0
Newton	2	0	0	2
Osage	0	1	2	3
Pike	3	0	2	1
Platte	2	0	2	0
Pulaski	0	0	0	0
Saline	0	0	0	0
Grand Total	94	24	46	42

Table 50 outlines the impacts, estimated impacts, and support provided by the SBA to business owners across the impacted counties. Here the total real property loss of \$19,456,169 is captured by summing verified repair losses (A) with verified reconstruction losses (C) and estimated repair (B) and reconstruction losses (D). Here, estimated repair losses are calculated by multiplying the median repair cost by the number of applicants who did not have an SBA verified loss. Estimated reconstruction losses are calculated as the product of the median reconstruction loss and the estimated number of applicants who would fall into this category (the product of the ratio of applicants within a category and those with no damage estimate).

Next, the same method was used to sum the verified and estimated losses to furniture (F and G), machinery (H and I), inventory (J and K), and business operating expenses (L and M) resulting in a total estimated operational loss to \$4,151,815 for all businesses. According to this method, total business impacts from 2019's severe weather was \$23,607,984. When accounting for resilience requirements (30% increase in rebuilding but not operations), the total impact to businesses in Missouri was \$29,444,835. SBA payouts to businesses totaled \$3,218,000 for these lines of loss, leaving a potential unmet need of **\$26,226,835**.

Table 50. SBA Derived Impact and Unmet needs for businesses

Small Business Administration Verified Business Property Loss of All SBA Applicants				
		Count	Value	
A	SBA applicants with a real estate verified loss (Repairs)	38	\$	4,852,871
B	SBA applicants without a real estate verified loss (Repair Estimate)	64	\$	4,498,688
C	SBA verified reconstruction loss (Rebuild)	8	\$	4,176,064
D	Estimated reconstruction loss (Rebuild)	13	\$	5,928,546
E	Total real estate losses for businesses referred to SBA (Estimate)		\$	19,456,169

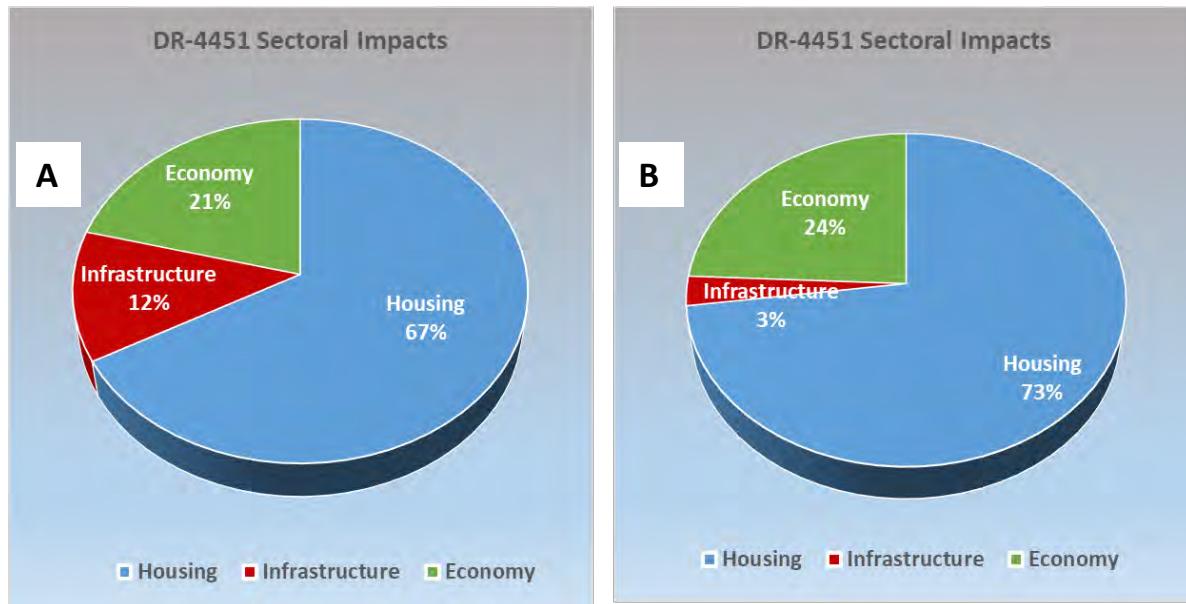
Small Business Administration Verified (and Estimated) Business Operating Loss of All SBA Applicants				
F	Verified furniture loss	22	\$	204,763
G	Furniture Loss (Estimate)	37	\$	302,461
H	Verified machinery loss	32	\$	1,558,065
I	Machinery loss (Estimate)	54	\$	605,238
J	Verified inventory loss	3	\$	3,001
K	Inventory Loss (Estimate)	5	\$	21,898
L	Verified EIDL Loss	17	\$	740,600
M	EIDL Loss (Estimate)	29	\$	715,789
N	Sum of operational losses		\$	4,151,815
O	Total verified loss for all businesses (Estimate)		\$	23,607,984
P	Accounting for 30% resilience addition		\$	29,444,835
Duplication of Benefits				
Q	SBA repair payments	12	\$	1,357,400
	SBA reconstruction payments	1	\$	80,300
R	SBA furniture payments	6	\$	54,400
S	SBA machinery payments	12	\$	960,000
T	SBA inventory payments	5	\$	25,300
U	SBA EIDL payments	17	\$	740,600
V	Total Benefit		\$	3,218,000
Overall Business Unmet Needs				
W	Total unmet business repair/replace estimate		\$	18,098,769
X	Total unmet business operation estimate		\$	2,371,515
Y	Total unmet business needs estimate		\$	20,470,284
Z	Accounting for 30% resilience addition		\$	26,226,835

Unmet Needs Summary

Damages and unmet needs from Missouri's severe storms to housing, infrastructure, and economy were identified in this assessment with housing impacts and associated unmet needs standing out among these three categories. Missouri's substantial damage to housing across the impacted counties (\$79.2 million) accounts for 67% of total estimated losses in comparison to the economic sector (\$29.8 million) or 21% of estimated total losses and the infrastructure sector (\$17.4 million) or 12% of total losses

(Figure 49A). After accounting for available recovery resources, the housing sector overall percentage of unmet need increases slightly in comparison to the infrastructure and economic sectors (Figure 49B).

Figure 49. A: Estimated losses by sector as a percentage of total losses, and B: Estimated unmet need.



Total housing unmet needs are \$79.2 million, while unmet business needs were just under \$26.4 million and estimated infrastructure unmet needs are just over \$3 million. Within the housing impacted populations are both a high number of single-family residential units and a sizable renter population. Recovery programs aimed at these two groups should have high return and lead to substantial progress in overall recovery from the storm. Additionally, a continued focus on home buyouts aimed at managed retreat from hazard zones will pay dividends into the future by reducing the potential for repetitive loss. Specifically, removing at risk structures from flood zones will help residents be more resilient in future flood disasters.

2. CONNECTIONS BETWEEN NEEDS AND ALLOCATION(S) OF FUNDS

As evidenced by the Unmet Needs Assessment, Missouri has a total unmet need in excess of \$108 million dollars. Overall, 72.8% of the disaster damage was in housing with over 24.2% in economic revitalization and 2.85% in infrastructure. For these reasons, Missouri will focus exclusively on meeting the Housing Unmet Needs.

Based upon the Unmet Needs Assessment, Missouri will devote all funding to those citizens who are Low- to Moderate-Income and other vulnerable populations. Those households that make 80% or less of the average median income (AMI) for their county are less are the most vulnerable and will have the

most difficult time in recovering themselves. Missouri has a large LMI population, most of which is uninsured. This grant will focus on aiding the most vulnerable within Missouri's population. Given this, the 2019 DR-4451 CDBG-DR Program is focused on the HUD National Objective of Benefit to Low- to Moderate-Income population.

Based again on the Unmet Needs Assessment, Missouri concurs with HUD analysis of the three Most Impacted and Distressed (MID) areas. Specifically, as noted in the January 27, 2020 HUD notice in the Federal Register, areas in Cole, Holt, and St. Charles counties were devastated by either flooding or tornado damage. Given the grant award of \$30.7 Million Dollars and the fact that housing unmet need was 73% (\$79,242,344) of the total unmet need, Missouri has chosen to allocate all funding from this grant to housing programs in these three counties. With this Action Plan, Missouri also looks to the future to avoid repeated flooding incidents while strengthening, mitigating, and adding resilience to this segment of the population.

The CDBG-DR Grant is for \$30,776,000. \$1,538,800 will be used by the State of Missouri for Administrative costs. The State of Missouri also is setting aside \$1,000,000 for planning. The remaining \$28,237,200 for Program Delivery will be used in the three MID counties. Allocation of Program Delivery funding for use in the three MID counties is based on the MID Indicator and % of LMI Homeowners from the Unmet Needs Assessment. Below is the allocation for use in each of the three MID counties.

COUNTY	% ALLOCATED	\$ ALLOCATED
Cole	25%	\$ 7,059,300
Holt	20%	\$ 5,647,440
St. Charles	55%	\$15,530,460
TOTAL	100%	\$28,237,200

The State of Missouri retains the ability to re-allocate any funds set aside for use in one of the three MID counties to another, if there are no remaining beneficiaries or projects in a county.

3. RECONSTRUCTION OF PUBLIC HOUSING, AFFORDABLE HOUSING AND OTHER FORMS OF ASSISTED HOUSING



Jefferson City, Fox4 Kansas City

- ❖ Identification and addressing rehabilitation, reconstruction, replacement, and new construction of housing including Public Housing Assistance (PHA)

Missouri's 2019 DR-4451 Disaster Recovery program will be implemented in the three counties designated in the January 27, 2020 Federal Register as "Most Impacted and Distressed" (MID). The program will only serve citizens who are Low- to Moderate-Income (LMI) or other vulnerable populations. Missouri is committed to three Housing Program activities:

- Local Voluntary Buyout Program
- Acquisition for Development of Affordable Housing
- Affordable Multi-Family Housing

Missouri does not plan to include rehabilitation or new construction of any disaster impacted or damaged Public Housing or rental housing as a part of its 2019 DR-4451 Disaster Recovery Program. Missouri will implement a Housing program focused on LMI homeowners and vulnerable population citizens. Missouri will do this through a Housing Program with three activities. The first is buying out LMI and vulnerable population homeowners in the floodway and the 100-year floodplain. The local government can use CDBG-DR funds to buy residential properties, with the intent to demolish the structures and create park amenities, open space, or flood storage/overflow areas. CDBG-DR funds may pay for related costs to acquisition, demolition, and relocation. The second activity is the acquisition and demolition of blighted or disaster damaged properties and related acquisition activities (including relocation expenses) where the immediate re-use of the property is the development of affordable housing. Affordable housing may include both affordable home ownership and affordable rental. CDBG-DR funds may only pay for the acquisition, demolition and related acquisition and relocation expenses. The redevelopment of the property to affordable housing, which must be part of the overall project, shall be paid by private and other funding sources, not including CDBG-DR. The third is an affordable multi-family housing activity designed to increase the affordable multi-family rental stock. As across the nation, the affordable housing crisis in Missouri is exacerbated with each disaster. The activity will leverage the utilization of low-income housing tax credits (LIHTC) and other Missouri Housing Development Commission (MHDC) multi-family funding with CDBG-DR funds. CDBG-DR funds may be used for the new construction of an affordable multi-family rental development, including related infrastructure needs.

Missouri's 2019 DR-4451 CDBG-DR Housing Program will only be implemented in the three MID counties.

- ❖ Funding addressing the unmet needs for affordable housing, rental property and private market units with tenants participating in a HUD housing program

Per the January 27, 2020 Federal Register, Missouri will seek to leverage funding from other sources to assist the CDBG-DR funding in the creation of affordable housing.

New Construction of Multi-Family housing in Missouri's CDBG-DR Program will look to the replacement of affordable housing stock in communities that face needs for restoring and improving the affordable housing stock as a result of the 2019 DR-4451 disaster events. Multi-Family Housing will be leveraged by LIHTC or other Missouri Housing Development Commission multifamily funding.

Multifamily: New or existing property owned by a Non-Profit, For-Profit or Public entity with at least 5 or more housing units.

Missouri will require Green Building Standards for all new construction of residential buildings. In addition, Missouri will incorporate a Resilient Home Construction Standard. The Housing Program policies and procedures will include further details for these standards along with Quality Construction Standards.

Due to the limited amount of funding for the 2019 DR-4451 disasters, Missouri's Program will not fund:

- Any rental property rehabilitation, regardless of affordability.
- Any rehabilitation of multi-family rental projects, affordable or not.
- Any rehabilitation, reconstruction or replacement of any private market units; regardless if they participate in project-based assistance or have tenants participating in Section 8 Housing Choice Voucher Program or any other HUD assistance program.

Affordability Period and Resale/Recapture Provisions

In accordance with HUD guidance, Missouri will require the following affordability periods:

- A minimum five-year affordability period on all newly constructed affordable single-family housing for homeownership. This applies to property acquired using CDBG-DR funding even though CDBG-DR funds may not pay for the new housing construction.
- A minimum fifteen-year affordability period on all properties for development of newly constructed affordable small rental (4 units or less) units. This applies to property acquired using CDBG-DR funds even though CDBG-DR funds may not pay for the new housing construction.
- A minimum twenty-year affordability period on all newly constructed affordable Multi-Family (5 units or more) housing complex projects. This applies if CDBG-DR funds are involved in the multi-family project, even though CDBG-DR funds may not pay for the new housing construction.

The State will develop and impose recapture affordability restrictions for single-family housing for homeownership that is made possible by CDBG-DR funded acquisition. This will enable affordable homeownership for LMI persons, and the enforcement of those recapture restrictions through recorded deed restrictions, covenants, or other similar mechanisms, for a period not less than five years. Missouri will establish recapture requirements for housing funded by the program and shall outline those requirements in the program's policies and procedures. The recapture provisions will clearly describe

the terms of the recapture provisions, the specific circumstances under which these provisions will be used, and how the provisions will be enforced in all signing events prior to the start of reconstruction, construction or home signing.

Developer agreements will include recapture affordability restrictions for small rental and multifamily projects.

4. PROMOTE HOUSING FOR VULNERABLE POPULATIONS

❖ Prevention of Homelessness

Missouri's 2019 DR-4451 CDBG-DR Program intends to prevent the homelessness of vulnerable populations by prioritizing low income (<30% AMI) households, families with children (under 5 years of age), households with disabled or special needs individuals and the elderly (over 65 years of age).

Missouri Prioritization of Service Point Chart

As CDBG-DR funding for Missouri's disaster is limited and the State of Missouri desires to prioritize those households which are the least likely to recover themselves. Households which typically are the least likely to recover from a disaster belong to one or more historically vulnerable populations or to vulnerable populations identified in the Unmet Needs Assessment.

To prioritize these vulnerable populations in the recovery process, each household application will be scored, using the chart below, during intake to determine a prioritization score. The maximum prioritization score a household could receive is 13.

A prioritization of service list will be developed with scores of 13 at the top and descending to scores of 0. Household applicants that have the same score will be prioritized by date of application completion; earliest to latest. *Example: There are three scores of 13. Their applications were completed on 14 May 2020, 21 January 2020, and 8 April 2020. The order of prioritization (service) would be the household applicant on 21 January, then 8 April and then 14 May.*

Vulnerable Population	Points
Low- to Moderate-Income <30% AMI	4
Low- to Moderate-Income 31-50% AMI	3
Low- to Moderate-Income 51-80% AMI	2

Income AMI 81-120%	1
Households with children age 5 and under	2
Single Parent Households	1
Households with citizens 65 years of age or older	3
Female Head of Household	1
Disabled/Special Needs Household	2

Accessibility Accommodations

Missouri's 2019 DR-4451 CDBG-DR Program will meet accessibility standards, provide reasonable accommodations to persons with disabilities, and take into consideration the functional needs of persons with disabilities in accordance with guidance found in Chapter 3 of HUD's Relocation Handbook 1378.0 (available on the HUD Exchange website at https://www.hud.gov/program_offices/administration/hudclips/handbooks/cpd/13780. A checklist of accessibility requirements under the Uniform Federal Accessibility Standards (UFAS) is available at <https://www.hudexchange.info/resources/documents/Ufas-Accessibility-Checklist.pdf>. The HUD Deeming Notice 79 FR 29671 (May 23, 2014) explains when HUD recipients can use 2010 ADA Standards with exceptions, as an alternative to UFAS to comply with Section 504.

Fair Housing

The State of Missouri is committed to providing housing assistance programs in a manner that furthers fair housing opportunities to all residents. The State will enact planning and outreach efforts to ensure rebuilding is equitable across communities. The State will implement all regulations in accordance with the Fair Housing Act. All Sub-Recipients and/or Contractors participating in this program will be required to certify that they will administer their programs in accordance with the Fair Housing Act and that the program will affirmatively further fair housing. Missouri will ensure there is no discrimination of any applicant to this program because of race, color, religion, national origin, sex, families with children and persons with handicaps.

5. MINIMIZE OR ADDRESS DISPLACEMENT

❖ Minimizing Displacement Strategies

Missouri will ensure the use of CDBG-DR funded activities will be designed to minimize displacement. In accordance with the Housing and Community Development Act of 1974, as amended, (HCDA), and US Department of Housing and Urban Development (HUD) regulations at 24 CFR 42.325 and 570.440 (1), use of Community Development Block Grant Disaster Recovery (CDBG-DR) funds must minimize adverse impacts on persons of LMI persons.

The purpose of a local voluntary buyout of property following a disaster is to move persons and families from harm's way to prevent repetitive damage, and to mitigate future loss. Missouri will apply the Uniform Relocation Act (URA) and its standards to the local voluntary buyout, acquisition and activities implemented by the 2019 DR-4451 CDBG-DR Program in a manner which ensures that equitable relocation treatment is available to all persons.

Based upon the Unmet Needs Assessment, Tenant Relocation Assistance is not a defined program activity in this disaster recovery strategy. However, Missouri will ensure full compliance with URA should the program discover a renter who is a home that is being bought out or acquire as part of the program. Tenant Relocation may be applicable to both the buyout and non-buyout acquisition activities. The State of Missouri recognizes the requirements of URA and will ensure as UGLGs, Non-Profit and For-Profit developers buyout and acquire homes, they will abide by the State's policies & procedures, as well as the following terms and conditions.

Waivers

- For the purpose of promoting the availability of decent, safe, and sanitary housing, HUD waived the following URA and section 104(d) requirements with respect to the use of CDBG-DR funds, as applicable:
- Tenant-based Rental Assistance: The requirements of sections 204 and 205 of the URA, and 49 CFR 24.2(a)(6)(vii), 24.2(a)(6)(ix), and 24.402(b) are waived to the extent necessary to meet all or a portion of replacement housing payment obligations to a displaced tenant by offering rental housing through a tenant-based based rental assistance (TBRA) housing program subsidy, (e.g., Section 8 rental voucher or certificate), provided that comparable replacement dwellings are made available to the tenant in accordance with 49 CFR 24.204(a) where the owner is willing to participate in the TBRA program, and the period of authorized assistance is at least 42 months. Households may be denied URA assistance as a result of being unable, because of a major disaster as determined by the President, to meet the occupancy requirements set by the URA.
- One-for-one replacement: Requirements at section 104(d)(2)(A)(i) and (ii) and (d)(3) of the HCD Act and 24 CFR 42.375 regarding one-for-one replacement are waived in connection with funds

allocated under this notice for lower-income dwelling units that are damaged by the disaster and not suitable for rehabilitation. This waiver exempts disaster damaged units that meet are ``not suitable for rehabilitation'', defined by the Missouri CDBG-DR Program as those units for which the cost of rehabilitation, including clear consideration for resolving issues affecting health and safety, exceeds the cap allowed for the project type.

- Housing incentive payments: 42 USC 5305(a) and associated regulations are waived to the extent necessary to allow the provision of housing incentives as appropriate for the purpose of relocation to a suitable housing development or an area promoted by the community's adopted recovery plan.
- Occupancy requirement: Homeowner occupants and tenants displaced from their homes as a result of the identified disasters and who would have otherwise been displaced as a direct result of any acquisition or demolition of real property for a federally funded program or project may become eligible for a replacement housing payment notwithstanding their inability to meet occupancy requirements prescribed in the URA. To the extent that it would apply to real property acquisition, rehabilitation or demolition of real property for a project commencing more than a year after the Presidentially declared disaster, Section 414 of the Stafford Act and implementing regulation at 49 CFR 24.403(d)(1) are waived, provided that the project was not planned, approved or otherwise underway prior to the disaster. See exception for persons meeting occupancy requirements and/or displaced due to other HUD-funded projects at 83 FR 5859.
- Optional relocation policies: The requirement that optional relocation policies be established at the grantee level for households which do not meet the URA definition of "displaced person" under 24 CFR 570.606(d) is waived (83 FR 5858). However, at the discretion of the State, subrecipients may adopt optional relocation assistance policies for providing minimal levels of assistance. See the Missouri CDBG-DR Program approved Housing Guidelines for more information on optional relocation assistance and cap. This waiver is intended to provide Missouri with maximum flexibility in developing optional relocation policies with CDBG-DR funds.

Low-income households permanently displaced as a result of CDBG-DR activities will be provided with relocation assistance under the URA and implementing regulations at 49 CFR Part 24.

Minimizing Displacement

The following steps will be taken, where applicable, to minimize direct and indirect displacement of persons from their homes. Applicability of items on this checklist is dependent upon the project objectives and related feasibility of each action.

1. Coordinate code enforcement with rehabilitation and housing assistance programs.
2. Evaluate housing codes and rehabilitation standards to prevent undue financial burden on established owners and tenants.
3. Adopt policies which provide reasonable protections for tenants residing in affected properties.

4. If feasible, demolish only dwelling units that are not occupied or vacant occupiable "dwelling units" (as defined in 24 CFR 42.305).
5. Target only those properties deemed essential to the need or success of the project to avoid displacement that is unnecessary.

Mitigation and Long-Term Recovery Planning

Missouri has designed a program to promote the movement of persons and families from the floodway and floodplain. The Housing program continues a long-standing local voluntary buyout strategy established in the state since the flood of 1993. Moving people from harm's way and eliminating future development has been a tenet of the Missouri CDBG programs for 25 years.

Missouri is a flood-prone state. With the amount of water prevalent in each of the disaster-declared counties, residents are experiencing flooding repeatedly. Eliminating development from the floodplain is the most effective strategy to achieve success. It is the ultimate mitigation program and it leads to resilient persons, families and communities. Program rules and regulations will help enhance the existing state policies and direction.



Holt Co., News Press Now

6. MAXIMUM ASSISTANCE AND COST REASONABLE ASSESSMENT

- ❖ Maximum Assistance Available

PROGRAM	ACTIVITY	MAX \$	NATIONAL OBJ	% OF GRANT	\$ AMOUNT
ADMINISTRATION	ADMINISTRATION			5%	\$ 1,538,800
PLANNING	PLANNING			3.3%	\$ 1,000,000
HOUSING	PROGRAM & DELIVERY	ALLOCATIONS • Cole County \$ 7,059,300 • Holt County \$ 5,647,440 • St Charles County \$15,530,460		91.7%	\$ 28,237,200
	<i>Affordable Multi-Family Housing Project</i>	• \$5M • To be used with additional leveraged funding	• LMI Benefit		
	<i>Local Voluntary Buyout</i>	• Pre-Disaster Fair Market Value of Home • Incentives up to \$100,000 • Demolition of old home	• LMI Area Benefit • LMI Benefit • LMI Buyout • LMI Housing Incentive • Urgent Need		
	<i>Acquisition for Development of Affordable Housing</i>	• Post-Disaster Fair Market Value of Home • Includes demolition of old home • To be used with additional leveraged funding	• LMI Benefit • Urgent Need		
TOTAL				100%	\$30,776,000

❖ Exceptions Process

Missouri will establish the procedures in policy for Units of General Local Governments (UGLGs) to provide exceptions for on a case-by-case basis to the maximum amount of assistance or cost effectiveness criteria utilized in the Local Voluntary Buyout activity. All CDBG-DR expenditures remain subject to cost principles in 2 CFR part 200, subpart E – Cost Principles, including the requirement that costs be necessary and reasonable for the performance of the grantee's CDBG-DR grant.

Cost Reasonableness

The State of Missouri's policies and procedures will address controls for assuring construction costs are consistent with the market cost at the time and place of construction, including a description addressing controls for housing projects involving 8 or more units. Standard Agreements with jurisdictions will include subrogation clauses in case of the event of non-compliance with the applicable requirements and regulations. Missouri, with its geography consisting of multiple rivers and tributaries, has a long history of disaster recovery from historical flooding with many areas suffering from repeated flooding. Given this situation, the best method of mitigating against future costs is the use of a holistic and integrated strategy which includes local voluntary buyouts and acquisitions. Missouri will conduct local voluntary buyouts of properties that are prone to future flooding and reduce the long-term cost of repeated flooded areas. The cost-benefit of buying out these homes is produced in varied ways. Key among these are savings derived from first responders not having to assist flooded families, future CDBG-DR and or CDBG-MIT funds being used to increase resilience on homes as opposed to using those funds in continually flooded areas, and the long term use of flood-prone property which doesn't impact citizen housing.

7. PLANNING & COORDINATION

❖ Promotion of Sound, Sustainable Long-Term Recovery Planning

Missouri is committed to sustainable Long-Term Recovery. Based upon an extensive unmet needs' assessment combined with experience from several recent disasters and CDBG-DR centered recoveries, Missouri is determined to conduct a holistic recovery focused on assisting those deemed as most vulnerable. Missouri has also undertaken an analysis of all available FEMA data garnered from the disaster and conducted an in-depth analysis of all available land use documents and FEMA flood maps and zones. The State of Missouri's Disaster Recovery Program does not plan on or foresee any construction requiring elevation; but does recognize the new Advisory Base Flood Elevation (ABFE) requirement in 83 FR 5850.

Missouri has conducted coordination with numerous agencies from around the state. In accordance with the HUD notice establishing this grant, Missouri has focused all efforts on the zip codes listed in the Federal Register release and those citizens residing in those counties. All efforts and funding from this grant are dedicated to the three counties of Cole, Holt and St. Charles counties. Further, Missouri will only serve citizens in those presidentially declared Most Impacted and Distressed counties who are Low-to Moderate-Income or other vulnerable populations.

Missouri has coordinated with the Regional Planning Commissions, directly with the most impacted and distressed counties, and with the citizens in each. Given the amount of damage combined with the amount of the grant, Missouri will only serve LMI and vulnerable population citizens and in these areas.

8. ELEVATION STANDARDS

The State of Missouri's 2019 DR-4451 Disaster Recovery Program will not include or intend to perform any construction in floodplains. Missouri recognizes that if any acquired property was in a floodplain that housing would be elevated in accordance with all federal, state, and local codes ensuring it is a minimum of 2 feet above base flood level; if applicable.

9. PROTECTION OF PEOPLE AND PROPERTY; CONSTRUCTION METHODS

Multi-family Housing implemented by the State will incorporate uniform best practices of construction standards for all construction contractors performing work in all relevant jurisdictions. Construction contractors will be required to carry required licenses and insurance coverage(s) for all work performed. Missouri will promote high quality, durable and energy efficient construction methods in affected counties. All newly constructed buildings must meet locally adopted building codes, standards and ordinances. In the absence of locally adopted and enforced building codes that are more restrictive than the state building code the requirements of the State Building Code will apply. Future property damage will be minimized by incorporating resilience standards by requiring that any rebuilding be done according to the best available science for that area with respect to base flood elevations, with the minimum elevation being two feet above the base flood elevation.

The State will implement construction methods that emphasize high quality, durability, energy efficiency, sustainability, and mold resistance. All rehabilitation, reconstruction, and new construction will be designed to incorporate principles of sustainability, including water and energy efficiency, resilience, and mitigation against the impact of future disasters.

Under the CDBG-DR Program, the State will require all new construction for residential buildings and all replacement of substantially damaged residential buildings meet an industry-recognized standard that has achieved certification under at least one of the following programs:

- ENERGY STAR (Certified Homes or Multifamily High Rise)
- Enterprise Green Communities
- LEED (New Construction, Homes, Midrise, Existing Buildings Operations and Maintenance, or Neighborhood Development)
- ICC 700 National Green Building Standard
- EPA Indoor AirPlus (ENERGY STAR a prerequisite)
- Any other equivalent comprehensive green building program acceptable to HUD.

Missouri's Disaster Recovery Program will ensure at a minimum that all Construction complies with the HUD Section 8 Existing Housing Quality Standards (HQS). The primary objective of these standards is to protect the tenant(s) by guaranteeing a basic level of acceptable housing. The goal is to provide "decent, safe and sanitary" housing at an affordable cost to lower income families. Beyond these minimum standards, the program encourages housing of the same quality and amenities as market rate housing within the same market area.

10. INFRASTRUCTURE ACTIVITIES

Missouri conducted a thorough unmet needs assessment. During this process Missouri conducted a comparison of the housing damage, economic impact damage, and infrastructure damage. Given this, Missouri will not commit CDBG-DR funds from this grant on Infrastructure.

11. RESILIENCE TO NATURAL HAZARDS

Missouri's disaster 4451 was a complex disaster that saw substantial damage across many counties over several months. Missouri saw high winds, hail, heavy rain, and flooding from March to July of 2018. In June of 2018, a tornado hit Jefferson City, Carl Junction and Eldon, Missouri. The separate flooding and tornado events impacted 61 counties. Twenty-six of the 61 counties were declared for FEMA Individual Assistance. And only 3 of those counties were designated by HUD as most impacted and distressed (MID).

In addressing these most impacted and distressed counties, Missouri will account for multiple long-term recovery mitigation efforts to preclude future disasters. Among these are ensuring compliance with the storm water management systems per 83 FR 5820 and all references to the HUD notice in the Federal Register, as well as past notices. These will include conducting local voluntary buyouts and establishing and maintaining construction standards which enhance long term recovery, mitigation, and enhance resiliency. While storm water management systems are critical components of any mitigation strategy,

Missouri does not have the funding available to resolve both immediate housing needs and upgrade storm water management systems with this specific grant allocation.

Missouri will conduct a citizen outreach designed to garner and use public input in the most distressed and impacted counties. Given that the state is already conducting numerous other CDBG-DR programs as well as Mitigation, the state remains committed to ensuring local government and community input in all areas of the program.

Program eligible activities include voluntary acquisition or local voluntary buyout of residential real property, including clearance and demolition. The term “buyout” as referenced in this Action Plan refers to acquisition of properties located in a floodway and floodplain that is intended to reduce risk from future flooding and the acquisition of properties as designated by the grantee. The key factor in determining whether the acquisition is a buyout is whether the intent of the purchase is to reduce risk of property damage in a floodplain or in an area designated by Missouri.

12. DISASTER RECOVERY AND RESPONSE PLAN

The Missouri Disaster Recovery Framework (MDRF) is a collaborative effort introduced by the State of Missouri to enhance the long-term recovery capabilities of communities. Its purpose is to quickly restore basic services to individuals and families, enable timely return to functionality, and reestablish social and economic order following a disaster.

Missouri has traditionally had a strong emergency response network. The development and implementation of a framework that focuses on the recovery portion of the disaster continuum will accomplish an efficient and well-rounded approach to the state’s disaster recovery efforts. Missouri is finalizing the state’s first MDRF Plan to codify both the statewide approach to long term recovery and provide the detail for each of the Recovery Support Functions (RSF).

Recovery is the process of returning a community to a normal state, albeit a “new normal”, after a disastrous incident. Recovery planning is paramount because no community is immune to disaster. A well-organized and collaborative approach will allow a faster recovery that leaves impacted communities more resilient.

Emergency response is undoubtedly best achieved under a command and control structure, but recovery is best achieved through building consensus. It requires local dialogue, input, collaboration and participation from all sectors of the community. The MDRF provides an organizational structure for addressing both the pre- and post-disaster recovery concerns for all hazard types. It is patterned after the National Disaster Recovery Framework (NDRF) that “establishes a common platform and forum for how the whole community builds, sustains, and coordinates delivery of recovery capabilities. Resilient and sustainable recovery encompasses more than the restoration of a community’s physical structures to pre-disaster conditions. Through effective coordination of partners and resources, we can ensure the continuity of services and support to meet the needs of affected community members who have experienced the hardships of financial, emotional, and/or physical impacts of devastating disasters.”

Pre-disaster planning greatly improves a community’s ability to successfully recover from a disaster. By identifying available resources, roles, and responsibilities, state and local officials will have the

knowledge to better leverage assistance and coordinate with RSF partners to maximize availability and use of those resources.

A whole community approach requires state and local governments; volunteer, faith- and community-based organizations; other non-governmental organizations; the private sector; and the public to work together. This teamwork enables communities to develop collective, mutually supporting local capabilities to withstand the potential initial impacts of these incidents, respond quickly, and recover in a way that sustains or improves the community's overall well-being.

The long-term recovery effort considers community and regional recovery for public and private sector partners. It uses existing resources of the state; local, professional, technical, and financial programs to facilitate faster and more resilient recovery. The structure allows creative uses of existing programs. It also uses partnerships to form and solve problems. Stakeholder input is critical at every level. The MDRF specifies emergency operations necessary to coordinate disaster relief efforts for rapid return to pre-emergency conditions. It defines the state and local government roles and procedures for implementing supplemental federal disaster assistance available under PL 93-288, the Robert T. Stafford Disaster Relief Act of 1988, as amended by PL 100-707. Providing services to people with disabilities and others with access and functional needs is implicit throughout the MDRF.

Missouri activated a new RSF model to address the state's long-term recovery needs following the devastating effects of flooding which began on April 28, 2017. The Governor's Office appointed a disaster recovery coordinator, for the first time in Missouri's history, prior to declaration of a federal disaster. The Governor's Office designated specific agencies/offices to lead RSFs aligned with their core capabilities and expertise in conjunction with the State Emergency Management Agency (SEMA):

- Natural and Cultural Resources- Missouri Department of Natural Resources
- Community- Missouri Department of Economic Development
- Infrastructure- Missouri Department of Transportation
- Health and Social Services- Missouri Department of Health and Senior Services
- Housing- Missouri State Treasurer's Office and Missouri Housing Development Commission
- Economic- Missouri Department of Development

Response operations will be put in motion first and have priority. Efforts will transition to recovery once areas are secure enough to begin an initial disaster assessment. Recovery is a continuum that moves from short-term to intermediate to long-term recovery with an appropriate set of activities and actions for each phase.

The MDRF focuses on community-wide resilience. Some examples of resilience-building activities that Missouri has already undertaken include:

- Residential and commercial buyouts
- NFIP participation
- Protective levees and berms
- Relocation of critical infrastructure
- Resilient design of roads and bridges

The RSF approach is derived from the best practices codified in FEMA NDRF. RSF architecture is the coordination and management structure, by key functional areas of assistance, to deliver resources and

capabilities, regardless of size or scope following an incident. Each individual RSF group's capabilities to achieve comprehensive, sustainable, and resilient recovery in essential mission areas.

Each RSF has a federal and state primary agency that serves as the lead coordinator and point of contact. The support organizations in each RSF are divided into one of three tiers to better represent the amount of time and expertise a supporting entity would bring to their respective RSF.

- The state RSF leaders aggressively pursue developing and cataloging capabilities and resources to fill gaps and meet objectives applicable to their area.
- Tier I organizations have a critical role in advising, subject matter expertise and leadership in their respective RSF.
- Tier I organizations have dedicated staff assigned to the recovery effort (full or part-time).
- A Tier II organization may have advisory or subject matter expertise but is not required for daily operations of the RSF.
- The Tier III organizations are stakeholders in the outcomes. Decisions made by the RSF should consider Tier III interests in order to contribute to the overall success of the mission.

13. LEVERAGING FUNDS

The State of Missouri has, and will continue to encourage the leveraging of funding for housing from the:

- MHDC HOME Investment Partnership, HERO program, state and federal low-income housing tax credits (both 4% and 9%) and Emergency Shelter Grant program
- Department of Economic Development, Division of Business and Community Services, CDBG Program and Neighborhood Preservation Tax Credit Program
- Department of Economic Development, Division of Energy, Weatherization Program
- US Department of Agriculture- Rural Development
- US Department of Housing and Urban Development
- Department of Public Safety, State Emergency Management Agency, Hazard Mitigation Program
- Small Business Administration, Home Disaster Loan Program
- Non-governmental philanthropic organizations, non-profit development organizations
- Private sector development community
- Disaster survivor financial participation and sweat equity (to the extent feasible and practical)

The goal for the use of the CDBG-DR funding is to continue the track record of leveraged investments. Although not likely, if the unmet housing need is exhausted, the CDBG-DR Program will formally amend the Plan to reflect the use of remaining funds in areas of unmet need in the categories of economic revitalization and infrastructure.

14. CONSTRUCTION STANDARDS

- ❖ Standards for Housing and Work performance

Housing Programs

Program Design Standards emphasize high quality, durability, energy efficiency, sustainability and mold resistance. Sub-Recipients and/or Contractors will comply with minimum standards established by the program or local code ordinance, whichever is stricter. Minimum standards include compliance with HUD Housing Quality Standards (HQS). New housing construction, and reconstruction will meet or exceed compliance standards with one of the Green Standards outlined in the policies and procedures implementation manual. All construction will meet an industry-recognized standard such as those set by the FORTIFIED Home standards. Missouri will utilize income limits as published by HUD on an annual basis. These income limits are posted on the DED website, which can be accessed at:

<https://ded.mo.gov/content/community-development-block-grants>

PROGRAM	ACTIVITY	MAX \$	NATIONAL OBJ	% OF GRANT	\$ AMOUNT
ADMINISTRATION	ADMINISTRATION			5%	\$ 1,538,800
PLANNING	PLANNING			3.3%	\$ 1,000,000
HOUSING	PROGRAM & DELIVERY	ALLOCATIONS • Cole County \$ 7,059,300 • Holt County \$ 5,647,440 • St Charles County \$15,530,460		91.7%	\$ 28,237,200
	<i>Affordable Multi-Family Housing Project</i>	• \$5M • To be used with additional leveraged funding	• LMI Benefit		
	<i>Local Voluntary Buyout</i>	• Pre-Disaster Fair Market Value of Home • Incentives up to \$100,000 • Demolition of old home	• LMI Area Benefit • LMI Benefit • LMI Buyout • LMI Housing Incentive • Urgent Need		
	<i>Acquisition for Development of Affordable Housing</i>	• Post-Disaster Fair Market Value of Home • Includes demolition of old home • To be used with additional leveraged funding	• LMI Benefit • Urgent Need		
TOTAL				100%	\$30,776,000

PROJECTS AND ACTIVITIES

15. BASIS FOR ALLOCATION

Missouri's Unmet Needs Assessment confirms the HUD analysis directing attention to three geographic areas. A thorough review of all available data sources confirms that housing is the greatest need and further confirms the geographic areas noted in the 27 January 2020 HUD notice in the Federal Register. Specifically, these are Holt, Cole, and St. Charles Counties. Given the amount of the grant at \$30,776,000, Missouri will focus all grant resources toward the three identified Most Impacted and Distressed Counties. Given the large numbers of Low- to Moderate-Income citizens in these counties,

Missouri will commit all funding to those who are Low- to Moderate-Income or belong to other vulnerable populations. Given over \$108 Million dollars in unmet needs combined with 72.88% of the damage to housing, Missouri will only do housing activities in the three counties.

COUNTY	% ALLOCATED	\$ ALLOCATED
Cole	25%	\$ 7,059,300
Holt	20%	\$ 5,647,440
St. Charles	55%	\$15,530,460
TOTAL	100%	\$28,237,200

16. PRESIDENTIALLY DECLARED COUNTY

All activities in Missouri's 2019 DR-4451 CDBG-DR Program will be executed in Presidentially declared counties eligible for assistance. The Program will only execute activities in the counties designated by HUD in the Federal Register as "Most Impacted and Distressed". These three MID counties are Cole, Holt and St. Charles.

17. MITIGATION

As previously stated, Missouri is prone to repeated flooding. All aspects of this Action Plan and the Missouri Long-Term Recovery strategy are in accordance with 83 FR 5851. The Local Voluntary Buyout activity is dedicated to mitigating future flooding of homes in the 100-year floodplain. All program activities require the citizen to purchase flood insurance which is a mitigation strategy. The Acquisition for Development of Affordable Housing activity is designed to assist LMI and vulnerable population families to secure safe, sanitary and secure affordable housing. The Multi-Family Housing activity is designed to assist LMI and vulnerable population families whose homes or residences suffered significant tornado damage. While it is difficult to mitigate against tornado damage, Missouri is committed to rebuilding to a high-quality construction standard as a part of a holistic long-term recovery and mitigation strategy.

The Missouri Local Voluntary Buyout program mitigates against future disasters by voluntarily moving citizens away from the repeated likelihood of future disasters. This program activity has embedded incentives which will increase the likelihood of citizens accepting the program and decrease any possibility of homelessness or community economic hardship due to a local voluntary buyout. The established cap is Pre-disaster Fair Market Value plus up to \$100,000 per home in incentives.

18. USE OF URGENT NEED

Although the flooding and subsequent tornadoes devastated communities across the state, Missouri does not, at present, see a requirement to invoke the use of Urgent Need into any program activities.

19. FOR FUNDS AWARDED TO A STATE (MOD or PROGRAMS/ACTIVITIES)

Missouri's 2019 DR-4451 Disaster Recovery program will implement the following three Housing Program activities:

- Local Voluntary Buyout. This activity is designed to allow citizens living in the 100-year floodplain to voluntarily have their homes bought from them so they can be demolished and returned to greenspace or non-commercial/residential use.
- Acquisition for Development of Affordable Housing. This activity is designed to acquire blighted or disaster damaged properties and leverage private or other financing to fund new construction of affordable housing. Besides being a benefit to the Low- to Moderate-Income citizens, this activity will also prevent and eliminate slum and blight.
- Affordable Multi-Family Housing Construction. This activity is designed to build an Affordable Multi-Family Housing complex to replace affordable housing stock lost due to tornado damage. This activity will leverage MHDC multifamily funding with CDBG-DR funds to build a multi-family complex.

Missouri's 2019 DR-4451 Disaster Recovery program will be implemented in the three counties designated in the January 27, 2020 Federal Register as "Most Impacted and Distressed" (MID). The program will only serve citizens who are Low- to Moderate-Income (LMI) or belong to other vulnerable populations. The program will serve citizens in the three MID counties: Cole, Holt and St. Charles.

❖ Activity Threshold Factors, Eligibility Criteria, Grant Size Limits and Start/End Dates

- **Local Voluntary Buyout:** This activity is designed to allow citizens living in the floodway or 100-year floodplain to voluntarily have their homes bought from them so they can be demolished and returned to greenspace or non-commercial/residential in perpetuity.
 - National Objectives: LMB- Low- to Moderate-Income Buyout, LMHI – Low- to Moderate-Income Housing Incentive, LMA – Low- to Moderate-Income Area Benefit Area, Urgent Need (if approved by DED-CDBG)
National Objective is achieved at time the buyout acquisition is completed for each individual household or target area.
- Eligible Applicant: **Units of Local Government (UGLGs)** will apply for this activity. A competitive application process will be utilized to make awards to UGLGs. The State will develop all policies and procedures, as well as provide oversight and monitoring. UGLGs will be responsible for implementation of the activity.

- Eligible Direct Beneficiaries: Households in Cole, Holt and St. Charles counties that were impacted by the 2019 DR-4451 Disaster, who are Low- to Moderate-Income or belong to other vulnerable populations. Vulnerable populations include households with:
 - Incomes below 80% of the county's Average Median Income (AMI)
 - Children 5 years of age and under
 - Single parent
 - Citizens 65 years of age or older
 - Female head of household
 - Disabled or special needs

In the case the jurisdiction qualifies the National Objective by LMA (Low- to Moderate-Income-Area Benefit) the project serves indirect beneficiaries.

- Eligible Activities:
 - Local Voluntary Buyout of residential properties
 - Acquisition of the property is a payment based on the “pre-disaster” appraised value, minus any duplication of benefits received
 - CDBG Environmental Review applies
 - Incentive payment to encourage resettlement. The calculation of a voluntary buyout for an LMI household or income eligible vulnerable population household contains two components: (1) the acquisition of the property is a payment made to the LMI homeowner based upon the “pre-disaster” appraised value. (2) the relocation benefit/housing incentive is a benefit paid to the income eligible household occupying the household at the time of the disaster and purchasing and moving to a comparable home outside of the 100 –year floodplain calculated as the lesser of: A. \$100,000; or B. The amount derived by calculating the appraised value of a comparable replacement property located outside of the 100-year floodplain, minus the pre-flood acquisition payment made, minus any duplication of benefits received.
 - Resettlement in floodplain is ineligible
 - Clearance and demolition
 - Properties connected to the local voluntary buyout of residential properties
 - Activity Delivery Costs
 - Administration
 - Single-Audit Costs proportionate to level of CDBG-DR funding

- Maximum Threshold for UGLGs: no maximum threshold, but must demonstrate unmet needs and priority for budget request
- Eligible Costs: Reasonable, allowable costs necessary to implement the eligible project activities. 2 CFR Part 200 Subpart E Cost Principles apply to all CDBG activities. Allowable costs include those necessary to directly carry out the local voluntary buyout activities.
- Reallocation: Declined local Method of Distribution allocations and de-obligated funds by UGLGs awarded funds under this allocation, will be reallocated to other funded UGLGs under this allocation, who request a grant award increase and present unmet need still-existing for the local voluntary buyout program. The State intends to only conduct one competitive application cycle to distribute the CDBG-DR allocation.
- Timeline: The proposed program start date is 30 days after HUD's approval of this Action Plan. The proposed end date for UGLGs to complete their local voluntary buyout activities is two years from the start date of the grant agreement.
- Citizen Participation Process is required in accordance with the State Citizen Participation Plan requirements for local governments.
- Marketing and Outreach guidelines for the Local Voluntary Buyout Program are included in the Missouri CDBG Program Implementation Manual.
- Implementation Manual. The State retains the responsibility to develop all program policy and procedures in accordance with all federal requirements associated with CDBG-DR and Buyouts. The State CDBG Program is responsible to provide technical assistance regarding the program policy and procedures. The State will monitor and provide oversight of the UGLG's activities. The UGLG is responsible for complete implementation of all program activities.
- Reporting Requirement. UGLGs will report to the State of Missouri on its progress. The frequency, format and required data will be established in policy & procedures from the State of Missouri.

Application Process

The State of Missouri will use a Notification of Funding Availability (NOFA) to **Units of General Local Government (UGLGs)** to implement this activity. The NOFA will require each applicant to provide the State with a completed application. The deadline for submissions is to be determined by the State; the notice will be published on the website, and directly communicated with the jurisdictions in the MID areas. The State will publish all key dates on its website and send out the key dates through its communication channels. The State will also provide updates at the monthly Missouri Association Council of Governments (MACOG) meeting.

The application must clearly identify unmet needs assessment for the area, projected costs, and projected performance accomplishments. The application guidelines will include more specific detail for the application phase. UGLG will complete outreach and marketing for the local voluntary buyout program prior to application submission.

The criteria for the award of CDBG-DR funds to a UGLG is listed below along with a point system. In order to ensure competition among applicants, Missouri will not award any funding to applicants who do not achieve a minimum score of 70 points from a 100-point system.

- Experience of the Unit of Local Government (20 Points)
- Subject Matter Expertise (10 Points)
- Organizational Capability to perform the required services (30 Points)
- Proposed Implementation Plan to perform the services (30 Points)
- Proposed Budget to perform the services (10 Points)
- Bonus points for using technology platform (5 points)

Units of Local Government are expected to provide detailed applications and will be awarded CDBG-DR funding from this grant to execute the required functions as described in this Action Plan. Units of Local Government will also operate under all state policies and compliance requirements associated with CDBG-DR grants.

Communications between the State of Missouri and UGLG will be:

- Telephone with Missouri DED point of contact
- Email to Missouri DED point of contact
- DED Website

UGLG Applicants will access application status updates through the application technology platform.

Upon application award, the UGLG's project receives a permanent assignment of a CDBG- DR Field Representative who will work with the project through its completion.

2. Acquisition for Development of Affordable Housing: This activity provides for the acquisition and demolition of blighted or disaster damaged properties and related acquisition activities (including relocation expenses) where the immediate re-use of the property is the development of affordable housing. Affordable housing may include both affordable home ownership and affordable rental. CDBG-

DR funds may only pay for the acquisition, demolition and related acquisition and relocation expenses. The redevelopment of the property to affordable housing, which must be part of the overall project, shall be paid by private and other funding sources, not including CDBG-DR. Affordability periods will apply.

Method of distribution is by the State of Missouri accepting applications and then awarding funds to eligible Non-Profit and For-Profit developers, who are interested in acquiring properties and building affordable housing for sale or rental. The State will develop all policies and procedures, as well as provide oversight and monitoring. The Non-Profit or For-Profit developers will be responsible for implementation.

- National Objective: LMI- Low- to Moderate-Benefit, Urgent Need if approved by DED-CDBG. The Program is meeting National Objective for this activity upon occupancy of the new construction affordable housing unit(s). National Objective is achieved at time the new construction affordable housing unit is occupied by income eligible household.
- - National Objective must be maintained for affordability period
 - Required affordability period of 5 years for new construction for home ownership
 - Required affordability period of 15 years for new construction of rental projects with four units or less
 - Required affordability period of 20 years for new construction of multi-family rental projects with five or more units
- Eligible Applicant: Non-Profit and For-Profit developers with experience in acquiring properties and building affordable housing
- Eligible Beneficiaries: In the case that affordable housing for homeownership is achieved, the direct beneficiary is the new homeowner qualified as income eligible to receive the benefit.
- Eligible Activities:
 - Acquisition of residential properties
 - Post Disaster appraisal value
 - CDBG Environmental Review costs
 - Duplication of Benefits screening
 - Clearance and demolition
 - Administration
 - Single-Audit Costs proportionate to level of CDBG-DR funding

- Maximum Threshold: Post-Disaster Fair Market Value plus clearance/demolition and environmental review costs
- Eligible Costs: Reasonable, allowable costs necessary to implement the eligible project activities. 2 CFR Part 200 under Subpart E apply to all CDBG-DR activities.
- Reallocation: Any grant funds for this activity remaining with one affordable housing developer after all incurred costs are paid will be de-obligated back to the State and may be reallocated for this activity to another developer.
- Timeline: The proposed program start date is 30 days after HUD's approval of this Action Plan. The proposed end date is three years from the start date of the funding agreement.
- Citizen Participation Process is required in accordance with the State Citizen Participation Plan requirements for local governments.
- Implementation Manual. The State retains the responsibility to develop all program policy and procedures in accordance with all federal requirements associated with CDBG-DR and Acquisitions. The State CDBG Program is responsible to provide technical assistance regarding the program policy and procedures. The State will monitor and provide oversight of the Non-Profit and For-Profit developers' activities. Non-Profit and For-Profit developers are responsible for complete implementation of all program activities.
- Reporting Requirement. Non-Profit and For-Profit developers will report to the State of Missouri on its progress. The frequency, format, and required data will be established in policy & procedures from the State of Missouri.

Application Process

The State of Missouri will use a Notification of Funding Availability (NOFA) to Non-Profit and For-Profit developers interested in implementing this activity. The NOFA will require each applicant to provide the State with a completed application. The deadline for submissions is to be determined by the State; the notice will be published on the website, and directly communicated with the jurisdictions in the MID areas. The State will publish all key dates on its website and send out the key dates through its communication channels. The State will also provide updates during at the monthly Missouri Association Council of Governments (MACOG) meeting.

The application must clearly identify the applicant's acquisition process including the environmental review. Application guidelines will include more specific detail for the application phase. Non-Profit and For-Profit developers will be responsible for outreach and marketing for the acquisition activity.

The criteria for the award of CDBG-DR funds to a prospective Non-Profit or For-Profit developer is listed below along with a point system. In order to ensure competition among applicants, Missouri will not award any funding to applicants who do not achieve a minimum score of 70 points from a 100-point system.

- Experience of the Non-Profit or For-Profit developer in acquiring property and developing affordable housing (20 Points)
- Subject Matter Expertise (10 Points)
- Capability of the Non-Profit or For-Profit developer to perform the required services (30 Points)
- Proposed Implementation Plan to perform the services (30 Points)
- Proposed Budget to perform the services (10 Points)
- Bonus points for using technology platform (5 points)

Non-Profit or For-Profit developers are expected to provide detailed applications and will be awarded CDBG-DR funding from this grant to execute the required functions as described in this Action Plan. Non-Profit or For-Profit developers will also operate under all state policies and compliance requirements associated with CDBG-DR grants.

Communications between the State of Missouri and Non-Profit and For-Profit developers will be:

- Telephone with Missouri DED point of contact
- Email to Missouri DED point of contact
- DED Website

The State of Missouri will have an application technology platform that will allow Non-Profit and For-Profit developers to view their application status.

3. Affordable Multi-Family Housing Construction. This activity is designed to increase the affordable housing stock by leveraging CDBG-DR loan funds with LIHTC or other Missouri Housing Development Commission multifamily funding for an Affordable Multi-Family Housing project. At this time Jefferson City in Cole County is the only MID jurisdiction that has indicated interest in a multifamily project.

Applicants for this activity must obtain a Letter of Intent from the Missouri Department of Economic Development (DED) and include this letter with their application submission. Applicants interested in leveraging LIHTC equity with this funding source should refer to the Developer's Guide and DED for more information regarding the CDBG-DR program.

The State of Missouri will deliver this activity directly. The State will take applications from Non-Profit and For-Profit developers through the Missouri Housing Development Commission (MHDC) Qualified Allocation Plan (QAP).

- Eligible Applicant: Non-Profit and For-Profit Developers
- Leveraged funds will include LIHTC and/or other MHDC Multi-Family funding
- CDBG-DR Loan size limit- Maximum amount is \$5,000,000.
- Proposed start and end dates- Aligns with MHDC QAP

- Affordability Period of 20 years minimum for new construction of multi-family rental projects with five or more units.
- Affordability Period of 15 years for new construction of rental projects with four or less units.
- Reporting Requirement. Non-Profit and For-Profit developers will report to the State of Missouri on its progress. The frequency, format, and required data will be established in policy & procedures from the State of Missouri.

ACTIVITY INFORMATION

❖ **Activity Projected Uses, Administering Entity, Budget and Area**

Administering Entity. Missouri's Department of Economic Development's Business Community Solutions Division will be the administering entity for the execution of the 2019 DR-4451 CDBG-DR program.

Budget Uses. Missouri's 2019 DR-4451 CDBG-DR program will follow the guidelines below:

<u>COST</u>	<u>PERCENTAGE</u>	<u>\$ BUDGETED</u>
Administration Costs	5%	\$ 1,538,800
Planning Costs	3.3%	\$ 1,000,000
Housing Program	91.7%	\$28,237,200

Geographic Area. Missouri will execute its 2019 DR-4551 CDBG-DR program in the three counties designated in the January 27, 2020 Federal Register as "Most Impacted and Distressed" (MID). The State of Missouri's program will only serve citizens who are Low- to Moderate-Income (LMI) or belong to other vulnerable populations. The program will start with intake in the three MID counties: Cole, Holt and St. Charles.

❖ **Activity Eligible Activities and National Objectives**

Missouri's 2019 DR-4451 CDBG-DR program will plan, implement, and execute activities that are CDBG-DR eligible and allowable. Missouri's activities are targeted to only assist LMI citizens and those in vulnerable populations.

ACTIVITY	NATIONAL OBJECTIVE
Affordable Multi-Family Housing Construction	LMI Benefit (LMI)
Local Voluntary Buyout	LMI Area Benefit (LMA), LMI Benefit (LMI), LMI Buyout (LMB), LMI Housing Incentive (LMHI), Urgent Need (UN)
Acquisition for the Development of Affordable Housing	LMI Benefit (LMI), Urgent Need (UN)

- **Local Voluntary Buyout.** This activity will move people away from water and prevent them from repeated future flooding disasters like the one they experienced in 2019. Moving citizens out of floodplains reduces the chance of future loss of life and property.
- **Acquisition for Development of Affordable Housing.** The 2019 DR-4451 flooding and tornado damage made it impossible for some citizens to repair or replace their homes or rental properties. Many of these disaster damaged properties are either now or becoming slum & blight. This activity provides for the acquisition and demolition of blighted or disaster damaged properties and related acquisition activities (including relocation expenses) where the immediate re-use of the property is the development of affordable housing. Affordable housing may include both affordable home ownership and affordable rental. CDBG-DR funds may only pay for the acquisition, demolition and related acquisition and relocation expenses. The redevelopment of the property to affordable housing, which must be part of the overall project, shall be paid by private and other funding sources, not including CDBG-DR. Affordability periods will apply. These properties negatively impact their communities in several ways. The impact to the community is positive in several ways. First, it provides property for the building of affordable housing. This addresses the shortage of affordable housing in communities. Second, this increases the tax-base in a community as well, having a direct impact to the continued economic revitalization of the community's businesses by adding more potential customers. Third, the community eliminates homes and property that become locations for negative and criminal elements/activities. These blighted and disaster damaged homes provide a negative visual image of a community. Eliminating them reduces the negative appearance and activities in communities.
- **Affordable Multi-Family Construction.** Prior to the 2019 DR-4451 tornado damage, Missouri had a shortage of affordable housing. The tornado damage from the 2019 DR-4451 disaster exacerbated the issue. The State of Missouri will address the reduced availability of affordable housing stock for LMI citizens by leveraging CDBG-DR funds and MHDC multifamily funding to construct new affordable multi-family housing in the DR-4451 Most Impacted and Distressed areas.

Ineligible Activities

Missouri will not limit any eligible activity beyond what is specifically excluded by HUD to allow for maximum flexibility.

Missouri will not conduct any ineligible activities, nor would they approve any UGLG, Contractor, Sub-Recipient, or Developer to conduct ineligible activities as identified in the Federal Register, Vol. 83, No. 28, Friday, February 9, 2018; including: forced mortgage payoff, construction of dam/levee beyond original footprint, incentive payments to households that move to disaster-impacted floodplains, assistance to privately owned utilities, not prioritizing assistance to businesses that meet the definition of a small business, and activities identified in 24 CFR 570.207. All activities and uses authorized under Title I of the Housing and Community Development Act of 1974 allowed by waiver, or published in the Federal Register, Vol. 83, No. 28, Friday, February 9, 2018, are eligible. Eligible use of CDBG-DR funds in a floodway are restricted to voluntary buyouts.

All of Missouri's 2019 CDBG-DR program activities are authorized under Title I of the Housing and Community Development Act of 1974 or allowed by waiver or alternative requirement published in the Federal Register.

20. BASIS FOR ALLOCATION

In the January 27, 2020 Federal Register, HUD identified St. Charles County and two Zip Codes (one in Cole and one in Holt County) as areas as the Most Impacted and Distressed (MID). Based on Missouri's Unmet Needs Assessment, Missouri concurs with this analysis. The counties of Cole, Holt and St. Charles saw a majority of the disaster impact in housing and especially on Low - to Moderate- Income citizens. The three counties were the top three FEMA Individual Assistance applicant counties. They had 890 of the 2,217 (40%) FEMA Individual Assistance applicants. Cole, Holt and St. Charles counties had over \$7,000,000 of the \$13,500,000 FEMA Homeowner Housing damage. They were the three counties with the highest percentages of Low- to Moderate-Income citizens impacted by the disaster, with 1,232 of the 2,271 impacted Low- to Moderate-Income citizens. The three counties were the first, second and fourth highest percentage of Low- to Moderate-Income Renters impacted counties in the disaster. They were also the top three counties in citizens with Access Functional Needs impacted by the disaster. Of the 304 citizens with Access Functional Needs, 123 were in Cole, Holt and St. Charles counties. The flooding and tornado damage created a greater and more significant unmet need in Cole, Holt and St. Charles counties than any other area in Missouri, especially on vulnerable populations like Low- to Moderate-Income citizens and those with Access Function Needs. Housing made up 73% of the Unmet Need. Given the amount of the grant combined with the large percentage of housing damage and high number of LMI citizens and vulnerable populations in the three MID counties, Missouri will expend all funds on housing in Cole, Holt and St. Charles Counties.

21. CRITERIA TO DETERMINE METHOD OF DISTRIBUTION

Given the amount of damage in combination with the grant amount, Missouri concurs with HUD analysis and will expend all funding in the three Most Impacted and Distressed areas, Cole, Holt and St. Charles Counties.

Missouri will use a Notification of Funding Availability (NOFA) to Units of Local Government to execute the local voluntary buyout program. Missouri will use the same criteria for applications associated with the acquisition activity for development of affordable housing, which makes the non-profit or for-profit housing organization (to include non-profit and/or for-profit developer) the eligible applicant. The NOFA will require each applicant to provide the state with a completed application. The criteria for the award of CDBG-DR funds to a Unit of Local Government are listed below along with a point system. The state will form a selection committee to score and individually rank each of the applications. In order to ensure competition among applicants, Missouri will not award any funding to applicants who do not achieve a minimum score of 70 points from a 100 point system.

- Experience of the Unit of Local Government (20 Points)
- Subject Matter Expertise (10 Points)
- Organizational Capability to perform the required services (30 Points)
- Proposed Implementation Plan to perform the services (30 Points)
- Proposed Budget to perform the services (10 Points)

Units of Local Government, and all others competing for the use of these funds, are expected to provide detailed applications and will be awarded CDBG-DR funding from this grant to execute the required functions as described in this Action Plan. Units of Local Government will also operate under all state policies and compliance requirements associated with CDBG-DR grants.

CLARITY OF PLAN AND CITIZEN PARTICIPATION

22. CLARITY

Missouri will conduct four virtual Public Meetings to explain the 2019 DR-4451 Disaster Recovery Program and to answer any questions from UGLGs and Citizens.

The initial purpose of the Public Meetings is to garner and solicit citizen input on this Action Plan. Missouri will seek citizen input and respond accordingly, making changes where necessary and adjusting and modifying the plan. While a COVID-19 environment may impact the methodology, Missouri will be in full compliance with 83 FR 5851. Missouri has extensive CDBG-DR experience with previous disasters as well as conducting successful outreach events associated with CDBG-Mitigation.

For this Action Plan the following are the key points to ensure a full understanding:

- Missouri received a HUD CDBG-DR grant for \$30.7 Million dollars
- In the HUD analysis, three counties were named as Most Impacted and Distressed (MID) areas; these were Cole, Holt and St. Charles counties

- HUD requires 80% of the funds to be spent in the MID areas
- Missouri conducted a thorough unmet needs assessment and concurs with the HUD analysis
- All funds will be expended in Cole, Holt, and St. Charles counties
- HUD requires that 70% of the funding benefit Low- to Moderate-Income (those who make 80% or less of the Area Median Income of the county they reside in) Households
- Missouri will only serve Households who are Low- to Moderate-Income or belong to other vulnerable populations
- UGLGs will conduct outreach and marketing in the areas to be served by the voluntary local buyout program
- UGLGs will be responsible for application processing, determining eligibility and accounting for all Duplication of Benefits(DOB), in delivering the voluntary local buyout program
- Missouri will establish DOB policy and will ensure compliance
- Missouri will, through program policy and procedures, ensure UGLGs will apply exception policy if applicable and approved by the State.
- The program activities will consist of the following:
 - Local Voluntary Buyout Program Activities
 - Acquisition for the Development of Affordable Housing
 - Affordable Multi-Family Housing Development
- Citizens are provided a 30-day citizen participation period to provide input and comment on this plan

23. SUBSTANTIAL AMENDMENT

Missouri defines a Substantial Amendment as an amendment to the Action Plan shall be considered substantial (requiring public notification and comment period) in the following events:

- a new funding source be added to the Action Plan
- the addition or deletion of an activity
- a change in program benefit or eligibility criteria
- the allocation for a new funding category or reallocation of a monetary threshold more than 25% of the allocation transferred between funding categories not to exceed HUD established maximums

24. CONSULTATION

❖ Publication

Missouri will prominently post this Action Plan on its website <https://ded.mo.gov/DisasterRecovery> (ded.mo.gov – Community Development Block Grant Disaster Recovery)

for a minimum of 30 days. The State CDBG Program will accept all feedback, answer all citizen questions, and retain and provide a summary of all questions and comments concerning this plan and

any subsequent changes to the Action Plan. The website meets all requirements for accessibility. Missouri has a long history of working with local governments and has coordinated with the counties of Cole, Holt, and St. Charles which were identified as Most Impacted and Distressed.

On XXXXX XX, 2020 the State of Missouri's 2019 CDBG-DR Action Plan was posted for public comment on the Department of Economic Development website <https://ded.mo.gov/DisasterRecovery> (ded.mo.gov – Community Development Block Grant Disaster Recovery).

Comments regarding the CDBG-DR Action Plan will be accepted through XXXX XX, 2020. Comments will be accepted at the CDBG-DR email address: MOCDBG-DR@ded.mo.gov.

Comments can also be mailed to the Missouri Department of Economic Development, 301 W. High Street, P.O. Box 118, Jefferson City, MO 65102-0118, but must be received by 5pm on the last day of the 30-day comment period.

See ANNEX B. State of Missouri Public Notice, Schedule of Public Engagements, and Citizen Participation Plan for State CDBG-DR for more details.

❖ Accessibility

The State of Missouri supports accommodation for citizens with limited English proficiency. All documentation available to the public on the website will be available in the appropriate language of the individual accessing it. The website is Section 508 compliant (as are all the State of Missouri sponsored websites.)

The State of Missouri follows ADA-compliant standards for website accessibility and readability. The content and web page layout is designed with best practices for adaptive aids use in mind.

See ANNEX B. State of Missouri Public Notice, Schedule of Public Engagements, and Citizen Participation Plan for State CDBG-DR for more details.

25. APPLICATION STATUS

❖ Communications

Units of Local Government (UGLGs) will apply to the State of Missouri for the Local Voluntary Buyout Program Activities that are included in the 2019 DR-4451 Disaster Recovery Housing Program. Once an UGLG applies to the program, they become an applicant. Applicants can access the status of their application as it moves through the program's designated process. Likewise, Non-Profit and For-Profit developers applying to the Acquisition for Development of Affordable Housing will apply, become applicants and access their status as their application moves through the designated process.

Applicants may track their application status via the State's electronic application platform.

The Missouri will maintain a website which will serve as a central source for program information and transparency in the management of federal dollars. It is a powerful tool for public participation and engagement. Additional posted information may include:

- Procurement policies and procedures
- Executed CDBG-DR contracts.
- Critical information regarding the status of services or goods currently being procured by the State for the CDBG-DR program will be posted in real-time during formal procurement processes (e.g., phase of the procurement, requirements for proposals, etc.). Once the procurement process is closed, these documents will be removed from the website and contracts for hired vendors will be posted as aforementioned executed CDBG-DR contracts.
- Announcement of Public Engagements including Public Meetings or Informational Meetings will be posted to the website as well local newspapers.
- The 2019 Action Plan for Disaster Recovery will be posted for no less than 30 calendar days to solicit public comment before being submitted to HUD. The final approved Action Plan will then be posted to a permanent section on the website designated for Action Plans and Amendments.
- Substantial Action Plan Amendments will be posted for no less than 30 calendar days to solicit public comment before being submitted to HUD.
- The final approved Action Plan Amendment will then be posted on the website.
- Non-substantial Action Plan Amendments will not be posted for public comment. These Amendments will be posted on the website after HUD approval.
- Each Quarterly Progress Report (QPR) will be posted for no less than 3 days to solicit public comment before being submitted to HUD. The final QPR will then be posted to the website.
- The Citizen Participation Plan will reside permanently on the website.
- Grant awards
- Program general inquiry phone number and general inquiry email
- General program expenditure and production progress reports
- Program and policy FAQs

Content for the site will be generated from all aspects of the program and will be drafted by operational staff with purview over the subject matter. All content will undergo draft review before final approval prior to posting.

Accessibility

The State of Missouri supports accommodation for citizens with limited English proficiency. All documentation available to the public on the website will be available in the appropriate language of the individual accessing it. The website is Section 508 compliant (as are all the State of Missouri sponsored websites.)

The State of Missouri follows ADA-compliant standards for website accessibility and readability. The content and web page layout is designed with best practices for adaptive aids use in mind.

GRANT MANAGEMENT AND BUDGET

26. BUDGET

PROGRAM	ACTIVITY	MAX \$	NATIONAL OBJ	% OF GRANT	\$ AMOUNT
ADMINISTRATION	ADMINISTRATION			5%	\$ 1,538,800
PLANNING	PLANNING			3.3%	\$ 1,000,000
HOUSING	PROGRAM & DELIVERY	ALLOCATIONS <ul style="list-style-type: none"> • Cole County \$ 7,059,300 • Holt County \$ 5,647,440 • St Charles County \$15,530,460 		91.7%	\$ 28,237,200
	<i>Affordable Multi-Family Housing Project</i>	<ul style="list-style-type: none"> • \$5M • To be used with additional leveraged funding 	<ul style="list-style-type: none"> • LMI Benefit 		
	<i>Local Voluntary Buyout</i>	<ul style="list-style-type: none"> • Pre-Disaster Fair Market Value of Home • Incentives up to \$100,000 • Demolition of old home 	<ul style="list-style-type: none"> • LMI Area Benefit • LMI Benefit • LMI Buyout • LMI Housing Incentive • Urgent Need 		
	<i>Acquisition for Development of Affordable Housing</i>	<ul style="list-style-type: none"> • Post-Disaster Fair Market Value of Home • Includes demolition of old home • To be used with additional leveraged funding 	<ul style="list-style-type: none"> • LMI Benefit • Urgent Need 		
TOTAL				100%	\$30,776,000

27. COST VERIFICATION

Missouri will ensure cost reasonableness in accordance with 83 FR 4031 and all other Federal cross cutting requirements. As evidenced by the HUD financial certifications, Missouri has numerous systems in place specifically designed for CDBG-DR funding. Missouri will conduct a quarterly cost reasonableness analysis and record the results. All Sub-Recipient, Developers and/or Contractors concerning construction will provide assurance that Missouri is paying a fair market value for construction materials.

28. PROGRAM INCOME

The use of CDBG-DR funds may potentially generate program income. Should any funds be generated, recovery of funds including program income, refunds and rebates will be used before drawing down additional CDBG-DR funds. The DRGR system requires grantees to use program income before drawing additional grant funds and ensures that program income retained by one will not affect grant draw requests for other grantees. Grantees will be required to report program income quarterly and will be subject to applicable rules, regulations and HUD guidance. Retention of program income will be in compliance with the

grantee agreements. Policies and procedures for program income are included in the CDBG-DR Implementation Manual.

29. UNIFORM RELOCATION ACT

In regards to applicable Uniform Relocation Act requirements, the State of Missouri through policy and procedures will define “demonstrable hardship”.

30. PROJECTIONS FOR EXPENDITURES AND PERFORMANCE OUTCOMES

PROJECTED MILESTONES IN EXPENDITURES AND PERFORMANCE

PROGRAM	\$ AMOUNT		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
ADMIN	\$1,538,800		\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000
PLANNING	\$1,000,000		\$62,500	\$62,500	\$62,500	\$62,500	\$62,500	\$62,500	\$62,500	\$62,500
HOUSING PROGRAM	\$28,237,200	\$ Amount	\$0	\$0	\$837,000	\$1,200,000	\$1,200,000	\$2,500,000	\$2,500,000	\$3,000,000
		# Units	0	0	10	10	10	20	20	28
		TOTAL	\$127,500	\$127,500	\$964,500	\$1,327,500	\$1,327,500	\$2,627,500	\$2,627,500	\$3,127,500

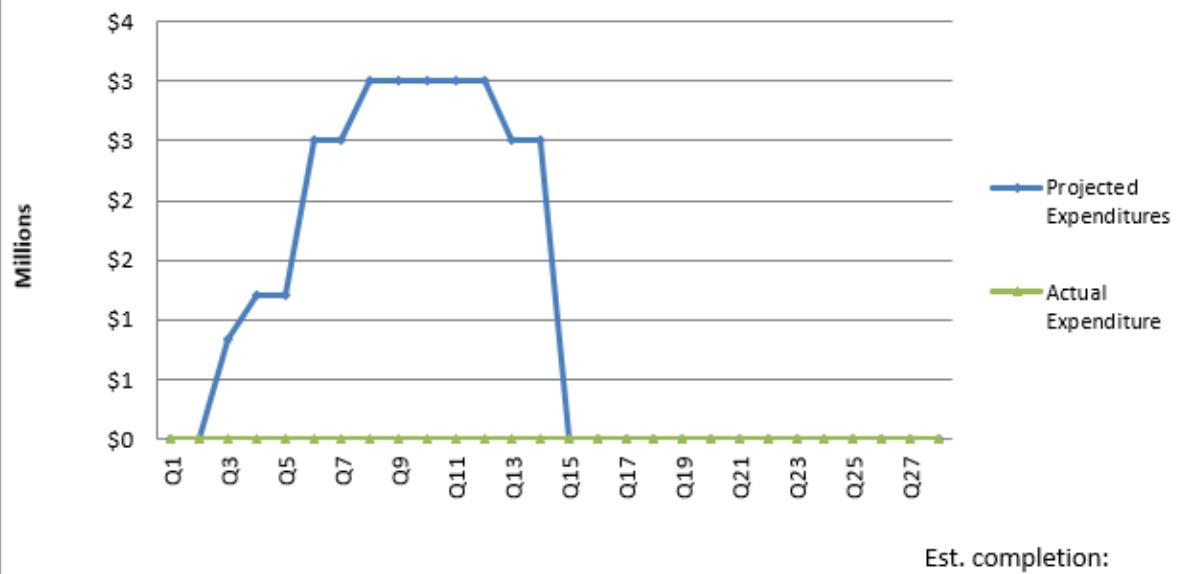
PROGRAM	\$ AMOUNT		Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
ADMIN	\$1,538,800		\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000
PLANNING	\$1,000,000		\$62,500	\$62,500	\$62,500	\$62,500	\$62,500	\$62,500	\$62,500	\$62,500
HOUSING PROGRAM	\$28,237,200	\$ Amount	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$2,500,000	\$2,500,000		
		# Units	28	28	28	28	20	20		
		TOTAL	\$3,127,500	\$3,127,500	\$3,127,500	\$3,127,500	\$2,627,500	\$2,627,500	\$127,500	\$127,500

PROGRAM	\$ AMOUNT		Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24
ADMIN	\$1,538,800		\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$43,800
PLANNING	\$1,000,000									
HOUSING PROGRAM	\$28,237,200	\$ Amount								
		# Units								
		TOTAL	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$43,800

PROJECTED BUDGET EXPENDITURE

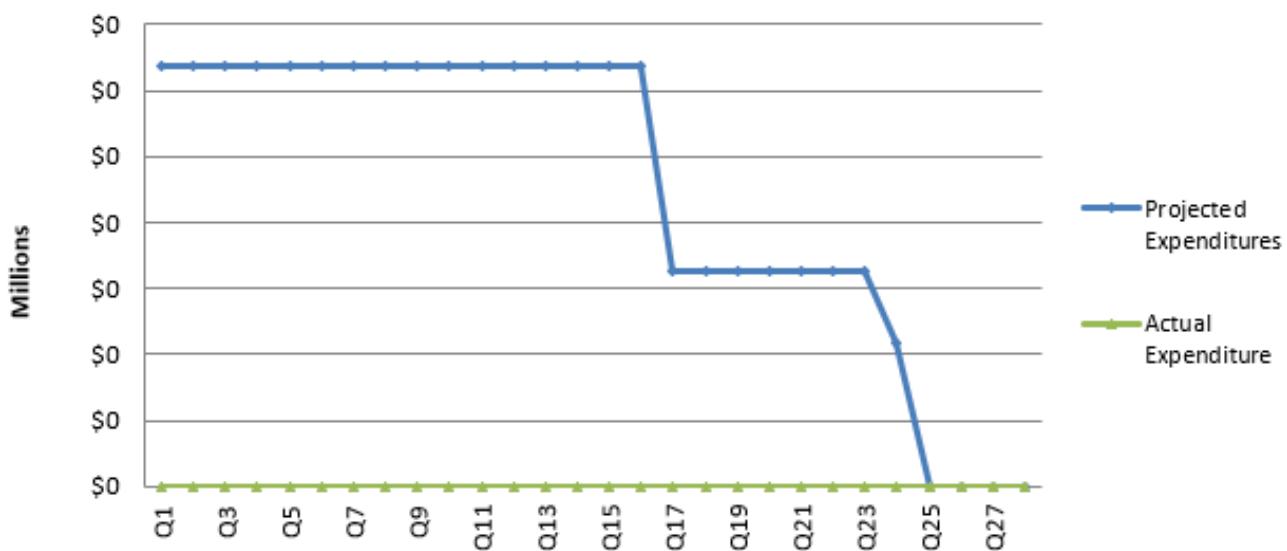
2019 Missouri Disaster Recovery Program

Housing Program Expenditures



2019 Missouri Disaster Recovery Program

Planning & Administrative Expenditures



2019 Missouri Disaster Recovery Program

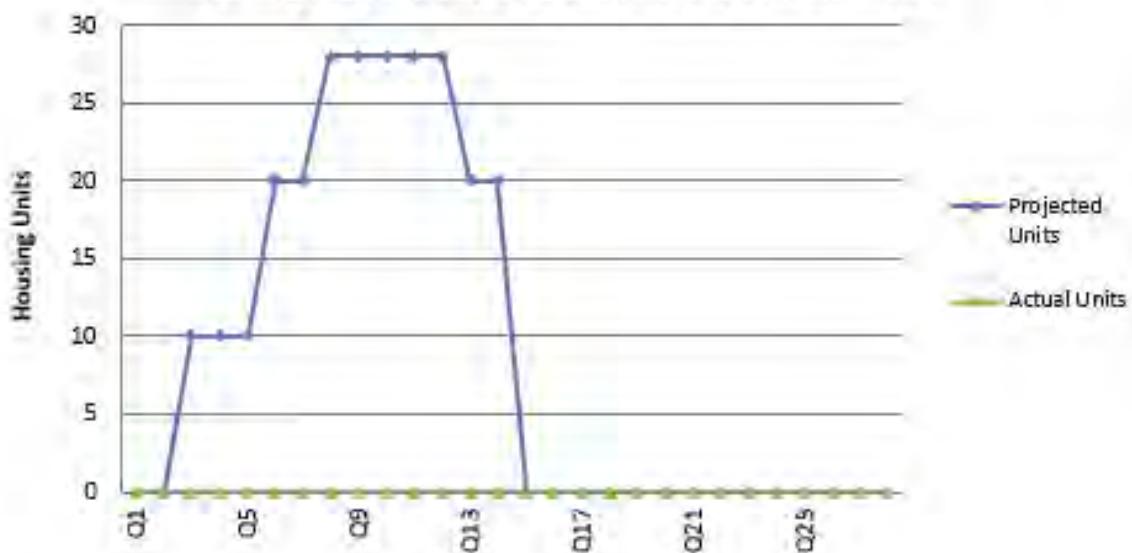
Total CDBG-DR Grant Expenditures



PROJECTED PERFORMANCE OUTCOME

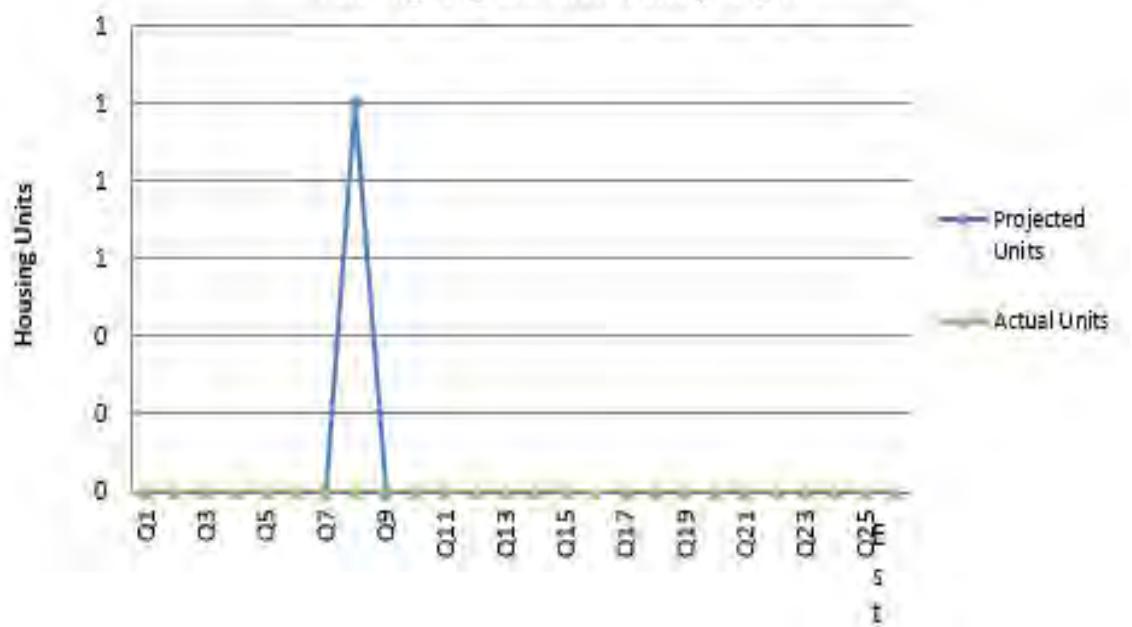
2019 Missouri Disaster Recovery Program

Housing Program- Buyout & Acquisition Accomplishments



2019 Missouri Disaster Recovery Program

Housing Program- Multi-Family Project



31. SF-424

The State of Missouri will provide a completed and executed Federal form SF-424 signed by the correct grantee official as described in the February 9, 2018 Federal Register Notice.

ANNEXES

- A. Limited English Proficiency (LEP)
- B. Schedule of Public Engagements
- C. Public Comments & Responses
- D. Citizen Participation Plan

ANNEX A. State of Missouri Language Access Plan for State CDBG, CDBG-CV, CDBG-DR, and CDBG-MIT

Introduction

Title VI of the Civil Rights Act of 1964, 42 U.S.C. 2000(d) and Executive Order 13166 require that recipients of federal funds take responsible steps to ensure meaningful access by persons with Limited English Proficiency (LEP persons). The State of Missouri CDBG and CDBG-DR programs are a recipient of federal funds and, thus, obligated to reduce language barriers that can preclude meaningful access by LEP persons to the programs. Missouri CDBG has prepared this Language Access Plan ("LAP" or "Plan"), which defines the actions to be taken to ensure meaningful access to agency services, programs, and activities on the part of persons who have limited English proficiency.

In preparing this Plan, CDBG conducted a four-factor analysis, considering:

- (1) the number or proportion of LEP persons eligible to be served or likely to be encountered by the Agency or its federally funded programs
- (2) frequency with which LEP persons come into contact with Agency's program
- (3) nature and importance of the program, activity, or service to people's lives
- (4) resources available and costs.

The State of Missouri MO CDBG will review and update, on an annual basis with the Annual Action Plan, this LAP in order to ensure continued responsiveness to community needs.

Purpose

The purpose of this plan is to provide direction on DED LEP needs as identified by the Four Factor Analysis data. The LAP also describes how DED and its subrecipients will provide meaningful language access services to address those needs. DED and its subrecipients will provide two primary types of services: oral and written. Oral language access services may come in the form of "in-language" communication by a qualified bilingual staff member directly in an LEP person's language and interpreter services.

Written language access services will come in the form of written translation provided by DED translators or a translation vendor.

DED and its subrecipients will engage in specific outreach efforts in accordance with Missouri's Citizen Participation Plan and this LAP to ensure that LEP persons are aware of the language access services available to them. DED and its subrecipients will also provide training to program level LAP Coordinators and direct service staff on how to implement this LAP and methods of assistance available to LEP individuals. DED and its subrecipients are committed to this LAP the appropriate response to meeting our LEP clients' needs, as well as complying with Title VI, Executive Order 13166, and Final Guidance (72 FR 2732).

Definitions

The following definitions will apply to this plan.

Language Access Plan (LAP): The State of Missouri's Plan to ensure meaningful access by persons with Limited English Proficiency (LEP persons).

Limited English Proficiency (LEP): Limited English Proficiency persons do not speak English as their primary language and who have a limited ability to read, write, speak, or understand English, and may be entitled to language assistance with respect to a particular type of service, benefit, or encounter. Note that for the purposes of gathering data for the four-factor analysis, DED used the U.S. Census definition as any individual who speaks a language at home other than English as their primary language, and who speaks or understands English "not well" or "not at all".

Subrecipient: The entity designated as a recipient for assistance with federal or state funding. This is any entity which receives federal assistance, directly from DED CDBG, CDBG-CV, CDBG-DR, CDBG-MIT. This includes, but is not limited to, any unit of local government, public housing authority, community housing development organization, public or private nonprofit agency, developer, contractor, private agency or institution, builder, property manager, residential management corporation, or cooperative association.

DESCRIPTION OF APPLICABLE PROGRAMS

The Missouri Department of Economic Development is the recipient of funding from the United States Department of Housing and Urban Development (HUD), which consists of annual State Community Development Block Grant Program (CDBG) funds, CDBG funds for COVID-19 response (CDBG-CV), Community Development Block Grant Program- Disaster Recovery (CDBG-DR) funds, Community Development Block Grant Program – Mitigation (CDBG-MIT) funds. DED then subgrants this funding to eligible subrecipients throughout the State of Missouri and such subrecipients undertake projects in specific services areas (i.e., within a particular local government, a group of counties, or other identified service area).

- CDBG: provides grants to units of local government in non-entitlement areas for the development of viable communities through street, potable water, sewer, community facility, and economic development activities.
- CDBG-DR: disaster allocations dedicated to recovery from various disasters, which must be utilized from housing, infrastructure, economic development, hazard mitigation, and planning.

Four Factor Analysis

Factor One: Identifying Missouri's LEP Population Who May Need Language Assistance

DED's service area generally consists of the entire State of Missouri. Communities meeting certain population threshold set forth by HUD are designated as entitlement communities and are not eligible to receive the annual State CDBG funds. However, these communities can receive CDBG-DR or CDBG-MIT funds if they are part of the communities included in the Disaster Declaration resulting in a CDBG-DR or CDBG-MIT supplemental allocation. To simplify the considerations for this Plan, all counties in the State of Missouri will be included in the Four Factor Analysis.

In order to determine the LEP population of Missouri, MO CDBG reviewed the 2015 5-year American Community Survey (ACS) data (Table B16001) to find what the primary languages were for people that spoke English less than "very well". Based on this data, in addition to English, Missouri's population speaks the following languages:

- Spanish (54,831 or 1.0%)
- Chinese (10,857 or 0.2%)
- Vietnamese (7,335 or 0.1%)
- German (5,263 or 0.1%)
- Serbo-Croatian (5,486 or 0.1%)
- African Languages (4,612 or 0.1%)
- Arabic (4,404 or 0.1%)
- Russian (3,576 or 0.1%).

This data shows that the Spanish speaking population is the largest LEP population in Missouri, and, therefore, would likely be the LEP population most likely to be encountered by MO CDBG, CDBG-CV, CDBG-DR, and CDBG-MIT programs. Because DED does not directly provide assistance to individuals, DED also looked at the ACS data to determine what LEP populations are present on a county level.

HUD has established a "safe harbor" regarding the responsibility to provide translation of Vital Documents for LEP populations. This safe harbor is based upon the number and percentages of the service area- eligible population or current beneficiaries and applicants that are LEP. According to the safe harbor rule, HUD expects translation of Vital Documents to be provided when the eligible LEP population in the service area or Beneficiaries exceeds 1,000 persons or if it exceeds 5% of the eligible population or Beneficiaries along with more than 50 people. In cases where more than 5% of the eligible population speaks a specific language, but fewer than 50 persons are affected, there should be a translated written notice of the person's right to an oral interpretation.

MO CDBG has identified fifteen counties and St. Louis City that have Spanish speaking LEP populations exceeding the 1,000 person or 5% threshold. These are depicted in the following table. Few other areas have an LEP population other than the Spanish speaking population that exceeds the HUD safe harbor threshold, as indicated in the table below.

The table below sets forth safe harbors for written translations for Missouri Counties and St. Louis City.

Note:

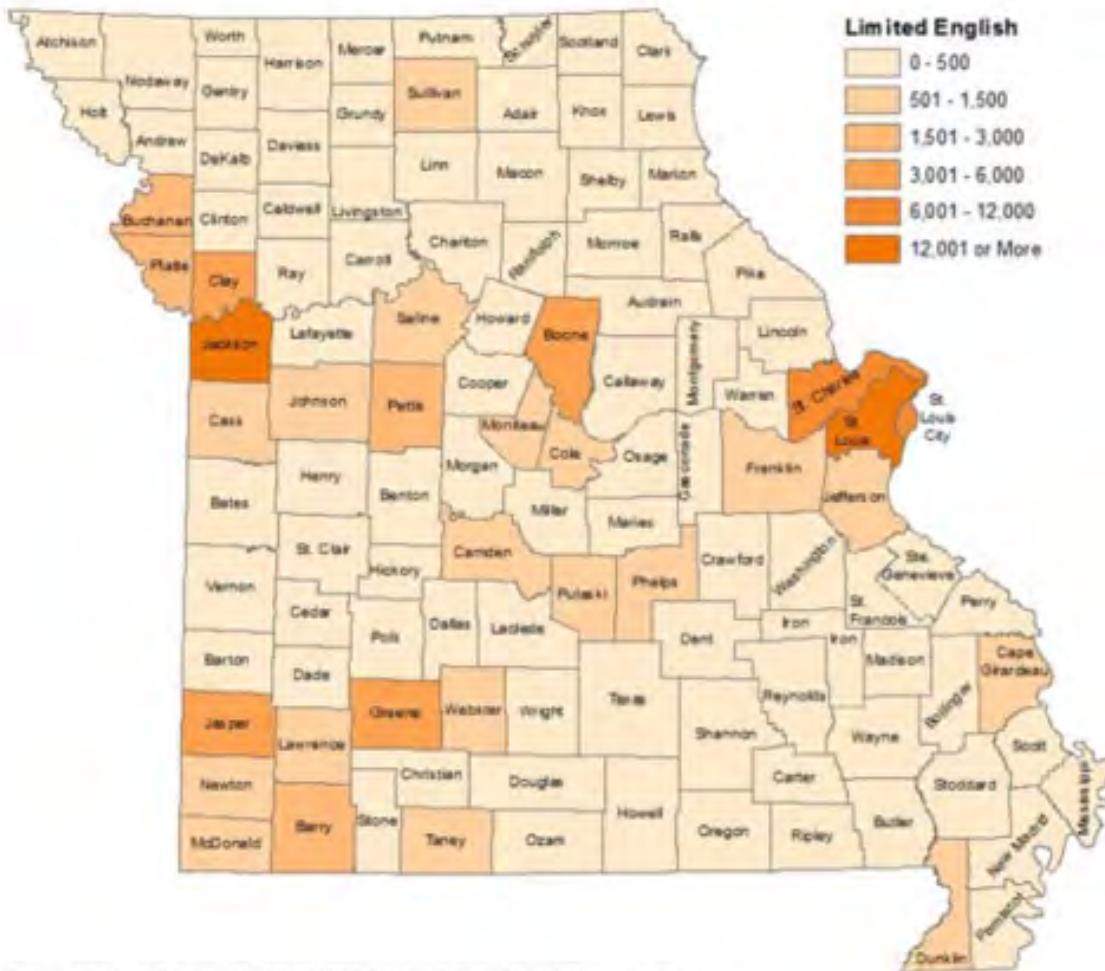
- *Italicized Counties* represent Counties included in DR-4317 Presidential Disaster Declaration and are identified as State Most Impacted and Distressed (MID) counties.

- Counties in **red** are included in DR-4317 and identified as containing a HUD MID zip code.
- Counties in **blue** are included in DR-4451 and identified as a HUD MID county.

Size of Language Group	Recommended Provision of Written Language Assistance	Missouri County and Language(s)
1,000 or more in the eligible population in the market area or among current beneficiaries	Translation of Vital Documents	<p><i>Barry</i> – Spanish <i>Boone</i> – Chinese <i>Buchanan</i> – Spanish <i>Cass</i> – Spanish <i>Clay</i> – Spanish <i>Jackson</i> – Spanish, Vietnamese, African <i>Jasper</i> – Spanish <i>McDonald</i> -Spanish <i>Pettis</i> – Spanish <i>Pulaski</i> – Spanish <i>St. Charles</i> – Spanish, Vietnamese <i>St. Louis City/County</i> – Spanish, Russian, Serbo-Croatian, Chinese, Korean, Vietnamese, Arabic, Other- Asian <i>Webster</i> - German</p>
More than 5% of the eligible population or beneficiaries <i>and 50 or more</i> in number	Translation of Vital Documents	<p><i>Barry</i> – Spanish <i>McDonald</i> – Spanish <i>Sullivan</i> - Spanish</p>
More than 5% of the eligible population or beneficiaries <i>and 50 or less</i> in number	Translation of Notice of Right to Receive Free Oral Interpretation of Vital Documents	None
5% or less of the eligible population or beneficiaries <i>and less than 100</i> in number	No written translation is required	As applicable

The map below identifies the number of persons per county with LEP.

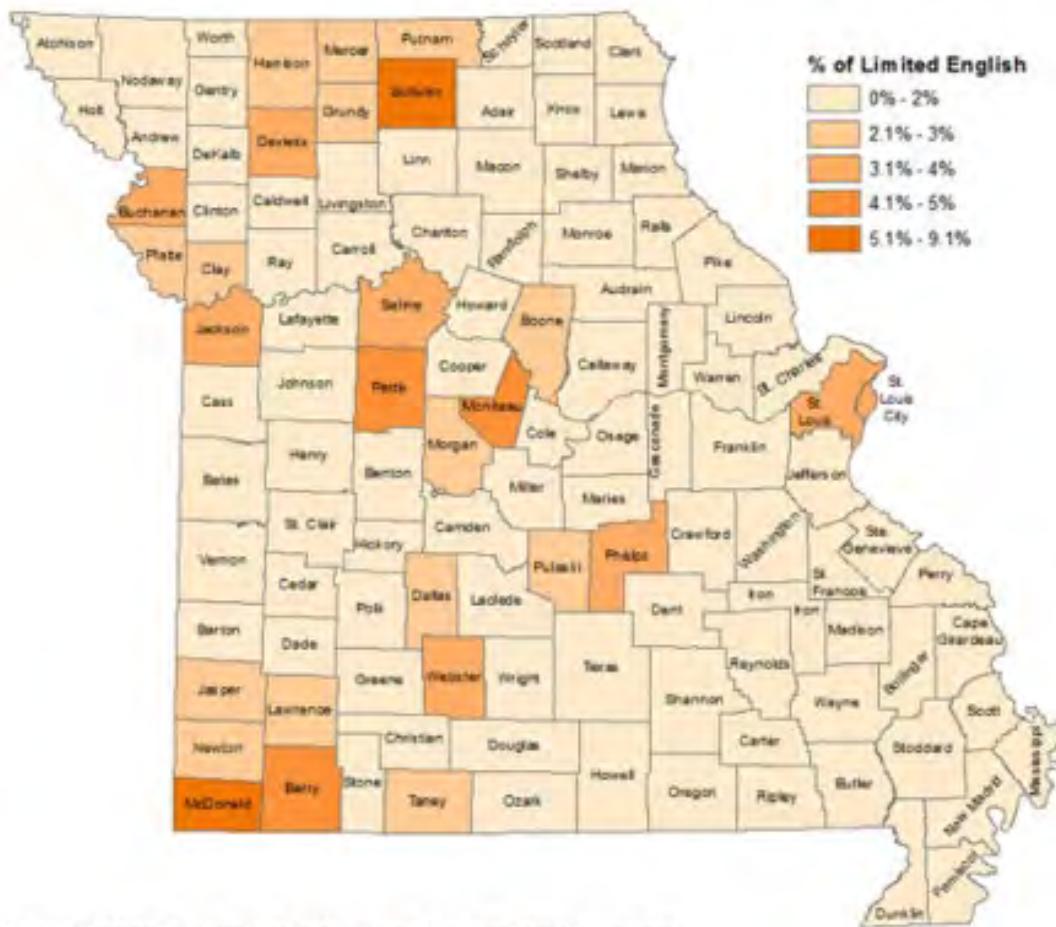
Population of Limited English Proficiency By County



Source: 2016 ACS 5-year (2012-2016) Estimates, Selected Social Characteristics.

The following map identifies the percentage of LEP persons per capita by county.

Per Capita Percentage of Limited English Proficiency By County



Source: 2016 ACS 5-year (2012-2016) Estimates, Selected Social Characteristics.

Factor Two: Frequency with which LEP Persons May Come into Contact with Missouri CDBG

As a by-product of sub granting funds to communities, DED does not often come into direct contact with LEP persons, as most direct contact with an LEP person occurs at the project level between the Subrecipient and the LEP person. There are instances, however, when DED may expect to come into contact with LEP persons at the State level, and accommodations are necessary. DED has determined that persons with LEP are most likely to come into contact with Agency programs as follows:

- Persons participating in the annual CDBG planning process for DED programs.

- Individuals utilizing the State's complaint/application status process.
- Individuals accessing the CDBG, CDBG-DR, and CDBG-MIT websites.

Factor Three: Nature & Importance of the Programs, Activity, or Services Provided by Missouri CDBG

DED understands that the more important the activity, information, services or program, the greater the possible consequences of the contact to the LEP persons, the more likely language services are needed. The programs administered by DED result in Subrecipients of HUD funding from DED carrying out projects, and in some instances, providing direct assistance to LEP individuals and families. It is likely that the type of project activities proposed by the Subrecipient will impact the level and type of language assistance needed to be provided. See Attachment A for LEP guidance to Subrecipients.

DED evaluated which of its programs are most likely to require language access services based on the program's audience. At the DED level, it is most important for language assistance services be provided for citizen participation efforts undertaken by CDBG, as this is when it is most likely that LEP individuals will come into contact with CDBG directly. It is also important that DED provides information to LEP persons that will allow them to file a complaint if they believe they have been denied the benefits of language assistance.

The table below demonstrates DED evaluation of the CDBG-MIT programs.

CDBG-MIT Program	Agency	Audience	Potential Interaction with LEP Persons
General Infrastructure	DED	Subrecipient Local Government or COG	The most likely potential for this program to interact with LEP persons will be when the local government holds a public hearing regarding the CDBG-MIT planned activities in their community.
Public Facility Hardening	DED	Subrecipient Local Government or COG	The most likely potential for this program to interact with LEP persons will be when the local government holds a public hearing regarding the CDBG-MIT planned activities in their community.
Generators for Critical Facilities	DED	Subrecipient Local Government or COG	The most likely potential for this program to interact with LEP persons will be when the local government holds a public hearing regarding the CDBG-MIT planned activities in their community.
Warning Systems	DED	Subrecipient Local Government or COG	The most likely potential for this program to interact with LEP persons will be when the local government holds a public hearing regarding the CDBG-MIT planned activities in their community.

For all CDBG, CDBG-CV, CDBG-DR, and CDBG-MIT, DED and its Subrecipients will interact with LEP individuals through a variety of means. These may include, but are not limited to:

- In person and telephone contact with program applicants and participants.
- Hotline or information line calls.
- Outreach programs.
- Public access to agency websites.
- Written correspondence, notices or complaints sent to an agency.
- And Agency brochures intended for public distribution.

DED will also provide appropriate language access services for LEP persons when Action Plan or Substantial Action Plan Amendments are considered, and public citizen participation periods are opened.

Factor Four: Available Resources & Costs

DED has limited resources available for administration of HUD funded programs. These resources primarily come from the percentage of CDBG, CDBG-CV, CDBG-DR, and CDGB-MIT Program funding that is allowed to be used for administration of such programs. DED will use these administration funds to provide LEP services, in addition to using such funds for fulfilling all other statutory and regulatory requirements of these programs.

The costs associated with providing LEP services will vary depending upon the service provided. A cost-effective method of providing LEP services would be to make LEP persons aware of the many brochures, handbooks, booklets, factsheets and forms that are available in multiple languages on the HUD website. DED may also, when appropriate, utilize free websites to translate written materials. The costliest option for providing LEP services would be to contract with outside persons that are proficient in interpretation of spoken word and in translation of documents. DED will do this when necessary. It is expected that the cost of obtaining such services will vary depending upon the nature of the services requested, and the service provider selected.

Point of Contact

The CDBG Communication Specialist, reachable at (573) 751-3600, is the designated point of contact for coordination of LEP compliance and services.

Identification of LEP Individuals who need Language Assistance

Missouri CDBG-DR will review American Community Survey data as it is updated to determine the size of LEP populations and the languages of LEP populations within the State of Missouri. The LAP will be updated to reflect changes to language assistance needs.

Language Assistance to be Provided

- DED will provide language assistance as requested and as appropriate.
- DED will use and make persons aware of the many brochures, handbooks, booklets, factsheets and forms that are available in multiple languages on the HUD website. Many of these are available at:
 - CDBG-DR site <https://ded.mo.gov/DisasterRecovery>
 - CDBG-MIT site <https://ded.mo.gov/Mitigation>
- When, and if appropriate, DED may utilize free websites and computer programs to translate written materials.
- As needed, DED will contract with entities that are proficient in interpretation of spoken word and translation of documents. A list of identified contractors is available through the

Missouri Office of Administration.

- DED will maintain an open contract with an approved Office of Administration vendor to provide language assistance through a voice interpretation service via telephone. DED will keep a copy of the instructions for using this service on the Department's internal share drive.
- DED will provide, on a prior request basis, interpretation assistance for public hearings from a qualified contractor.
- DED will translate Vital Documents, including but not limited to the Citizen Participation Plan and Complaint procedures, into Spanish (and other languages as need may be identified in the future).

ATTACHMENT A:

MISSOURI CDBG, CDBG-CV, CDBG-DR, AND CDBG-MIT GRANTEE LANGUAGE ACCESS PLAN GUIDANCE

This document provides additional guidance on how to accomplish timely and reasonable steps to provide Limited English Proficient (LEP) persons with meaningful access to programs and activities funded by the federal government and awarded by MO CDBG, CDBG-DR, and CDBG-MIT. Refer to the CDBG LAP Policy and the Civil Rights section of the CDBG Administrative Manual, then complete the steps described in detail below to develop a local LAP:

STEP 1: PROVIDE GENERAL INFORMATION

Provide the following information at the beginning of the local government's Language Access plan

- Grantee
- CDBG Grant Number
- Target Area
- Preparer's name, phone number, email address

STEP 2: CONDUCT A FOUR-FACTOR ANALYSIS TO DETERMINE HOW TO PROVIDE NEEDED LANGUAGE ASSISTANCE

Recipients are required to take reasonable steps to ensure meaningful access to LEP persons. This "reasonableness" standard is intended to be flexible and fact dependent. It is also intended to balance the need to ensure meaningful access by LEP persons to critical services while not imposing undue financial burdens on small businesses, small local governments, or small nonprofit organizations. Use data to answer the question:

- How many Limited English Proficient people are in your local government's city or county's jurisdiction?
- Attach maps (if applicable) or other relevant data to your Language Access Plan. All data or maps provided must be accurately sourced.

As a starting point, a recipient may conduct an individualized assessment that balances the following four factors:

FACTOR 1: DETERMINE THE NUMBER OF LEP PERSONS SERVED OR ENCOUNTERED IN THE ELIGIBLE SERVICE POPULATION.

Most grantees will depend on the most recent release of data from the American Community Survey Table B16001 and Table S1601, updated each year in December, to determine the number of LEP persons in the service area. In the case where the overall jurisdiction numbers fall below the Safe Harbor thresholds to provide translated written documents but existing or planned CDBG target areas exist, the CDBG grantee must evaluate whether there are LEP households within the target areas that may need notification or other LAP services. The grantee's evaluation should use local knowledge or data or other relevant data in conducting its evaluation and should indicate its conclusions regarding the steps necessary reach out to these households in the language they speak to ensure that adequate notification is achieved. This evaluation will be particularly important for housing grants where eligible applicants for assistance may need application or other documents translated to take advantage of available services. All data provided must be accurately sourced. The size of the language group determines the recommended provision for written language assistance, as determined by the "safe harbors" outlined in the federal register, 72 FR 2732.

TABLE 1- SAFE HARBOR THRESHOLDS

Size of Language Group	Recommended Provision of Written Language Assistance
100 or more in the eligible population	Translated vital documents
More than 5% of the eligible population or beneficiaries and more than 50 in number	Translated vital documents
More than 5% of the eligible population or beneficiaries and 50 or less in number	Translated written notice of right to receive free oral interpretation of documents
5% or less of the eligible population or beneficiaries and less than 1000 in number	No written translation is required

A vital document is any document that is critical for ensuring meaningful access to the grantees' major activities and programs by beneficiaries generally and LEP persons specifically. Whether or not a document (or the information it solicits) is "vital" may depend upon the importance of the program, information, encounter, or service involved, and the consequence to the LEP person if the information is not provided accurately or in a timely manner. Where appropriate, grantees are encouraged to create a

plan for consistently determining, over time and across its various activities, what documents are "vital" to the meaningful access of the LEP populations they serve. Leases, rental agreements and other housing documents of a legal nature enforceable in U.S. courts should be in English.

FACTOR 2: THE FREQUENCY WITH WHICH LEP PERSONS COME INTO CONTACT WITH THE PROGRAM.

Grantees should assess, as accurately as possible, the frequency with which they have or should have contact with an LEP individual from different language groups seeking assistance. If an LEP individual accesses a program or service on a daily basis, a recipient has greater duties than if the same individual's program or activity contact is unpredictable or infrequent. But even recipients that serve LEP persons on an unpredictable or infrequent basis should determine what to do if an LEP individual seeks services under the program in question. This plan need not be intricate. It may be as simple as being prepared to use one of the commercially available telephonic interpretation services to obtain immediate interpreter services. In applying this standard, recipients should consider whether appropriate outreach to LEP persons could increase the frequency of contact with LEP language groups.

For CDBG, CDBG-DR, and CDBG-MIT grants, grantees must engage with the public at these critical steps:

- When notifying the public about a grant award application and its proposed activities
- When notifying the public about the grant award and its funded activities
- When seeking applicants to participate in the program (e.g., when seeking homeowners for rehabilitation assistance)
- When seeking qualified contractors
- When working with homeowners selected for assistance
- When seeking bids from builders to construct the homes
- When notifying the public about the grant award closeout and its accomplishments

Answer the following questions:

- What is the nature of the program? e.g. providing improved water and sewer services.
- What is the importance of the program?
- Would denial or delay of access to services or information have serious or even life-threatening implications for the LEP individual?

FACTOR 3: THE NATURE AND IMPORTANCE OF THE PROGRAM, ACTIVITY, OR SERVICE PROVIDED BY THE PROGRAM.

The more important the activity, information, service, or program, or the greater the possible consequences of the contact to the LEP persons, the more likely the need for language services. The grantee needs to determine whether denial or delay of access to services or information could have serious or even life-threatening implications for the LEP individual. Decisions by HUD, another federal, state, or local entity, or the recipient to make a specific activity compulsory in order to participate in the program, such as filling out particular forms, participating in administrative hearings, or other activities, can serve as strong evidence of the program's importance.

Determine the resources to be made available if any.

FACTOR 4: THE RESOURCES AVAILABLE AND COSTS TO THE RECIPIENT

Language assistance that a grantee might provide to LEP persons includes, but is not limited to:

- Oral interpretation services
- Bilingual staff
- Telephone service lines interpreter
- Written translation services
- Notices to staff and subrecipients of the availability of LEP services or
- Referrals to community liaisons proficient in the language of LEP persons
- Provide "I speak" card, available at <https://www.lep.gov/ISpeakCards2004.pdf>
- Use of the many brochures, handbooks, booklets, factsheets, and forms that are available in multiple languages on the HUD website:

https://www.hud.gov/program_offices/fair_housing_equal_opp/17lep#Booklets

A recipient's level of resources and the costs that would be imposed on it may have an impact on the nature of the steps it should take. Smaller recipients with more limited budgets are not expected to provide the same level of language services as larger recipients with larger budgets. In addition, "reasonable steps" may cease to be reasonable where the costs imposed substantially exceed the benefits. Resource and cost issues, however, can often be reduced by technological advances; sharing of language assistance materials and services among and between recipients, advocacy groups, and federal grant agencies; and reasonable business practices. Where appropriate, training bilingual staff to act as interpreters and translators, information sharing through industry groups, telephonic and video conferencing interpretation services, pooling resources and standardizing documents to reduce translation needs, using qualified translators and interpreters to ensure that documents need not be "fixed" later and that inaccurate interpretations do not cause delay or other costs, centralizing interpreter and translator services to achieve economies of scale, or the formalized use of qualified community volunteers, for example, may help reduce costs. Recipients should carefully explore the most cost- effective means of delivering competent and accurate language services before limiting services due to resource concerns. Small recipients with limited resources may find that entering into a bulk telephonic interpretation service contract will prove cost effective.

Large entities and those entities serving a significant substantiated before using this factor as a reason to limit language assistance. Such recipients may find it useful to articulate, through documentation or in some other reasonable manner, their process for determining that language services would be limited based on resources or costs.

The four-factor analysis necessarily implicates the “mix” of LEP services the recipient will provide. Recipients have two main ways to provide language services: Oral interpretation in person or via telephone interpretation service (hereinafter “interpretation”) and through written translation (hereinafter “translation”). Oral interpretation can range from on-site interpreters for critical services provided to a high volume of LEP persons through commercially available telephonic interpretation services. Written translation, likewise, can range from translation of an entire document to translation of a short description of the document. In some cases, language services should be made available on an expedited basis, while

in others the LEP individual may be referred to another office of the recipient for language assistance. The correct mix should be based on what is both necessary and reasonable in light of the four-factor analysis. For instance, a public housing provider in a largely Hispanic neighborhood may need immediate oral interpreters available and should give serious consideration to hiring some bilingual staff. (Of course, many have already made such arrangements.) By contrast, there may be circumstances where the importance and nature of the activity and number or proportion and frequency of contact with LEP persons may be low and the costs and resources needed to provide language services may be high – such as in the case of a voluntary public tour of a recreational facility – in which pre-arranged language services for the particular service may not be necessary. Regardless of the type of language service provided, quality and accuracy of those services can be critical in order to avoid serious consequences to the LEP person and to the recipient. Recipients have substantial flexibility in determining the appropriate mix.

STEP 3: PREPARE A LANGUAGE ACCESS PLAN (LAP) & SUBMIT IT TO YOUR CDBG FIELD REP

After completing the four-factor analysis and deciding what language assistance services are appropriate, grantees must develop a Language Assistance Plan to address identified needs of the LEP populations it serves. An effective LAP should include:

- The Four Factor Analysis
- The points and types of contact the agency and staff may have with LEP persons
- The procedures the grantee will use to identify LEP individuals who need language assistance
- Ways in which language assistance will be provided by the grantee
- A list of vital documents to be translated (if necessary)
- The grantee’s plan for training staff members on LEP guidance and the LAP
- The grantee’s plan for monitoring and updating the LAP
- A plan for complaints and appeals

Language Access Plan Frequently Asked Questions

Who are limited English proficient (LEP) persons?

Persons who, as a result of national origin, do not speak English as their primary language and who have a limited ability to speak, read, write, or understand. For purposes of Title VI and the LEP Guidance, persons may be entitled to language assistance with respect to a particular service, benefit, or encounter.

What is Title VI and how does it relate to providing meaningful access to LEP persons?

Title VI of the Civil Rights Act of 1964 is the federal law that protects individuals from discrimination on the basis of their race, color, or national origin in programs that receive federal financial assistance. In certain situations, failure to ensure that persons who are LEP can effectively participate in, or benefit from, federally assisted programs may violate Title VI's prohibition against national origin discrimination.

What do Executive Order (EO) 13166 and the Guidance require?

EO 13166, signed on August 11, 2000, directs all federal agencies, including the Department of Housing and Urban Development (HUD), to work to ensure that programs receiving federal financial assistance provide meaningful access to LEP persons. Pursuant to EO 13166, the meaningful access requirement of the Title VI regulations and the four-factor analysis set forth in the Department of Justice (DOJ) LEP Guidance apply to the programs and activities of federal agencies, including HUD. In addition, EO 13166 requires federal agencies to issue LEP Guidance to assist their federally assisted recipients in providing such meaningful access to their programs. This Guidance must be consistent with the DOJ Guidance. Each federal agency is required to specifically tailor the general standards established in DOJ's Guidance to its federally assisted recipients. On December 19, 2003, HUD published such proposed Guidance.

Who must comply with the Title VI LEP obligations?

All programs and operations of entities that receive financial assistance from the federal government, including but not limited to state agencies, local agencies and for-profit and non-profit entities, must comply with the Title VI requirements. A listing of most, but not necessarily all, HUD programs that are federally assisted may be found at the "List of Federally Assisted Programs" published in the Federal Register on November 24, 2004 (69 FR 68700). Sub-recipients must also comply (i.e., when federal funds are passed through a recipient to a sub-recipient). As an example, Federal Housing Administration (FHA) insurance is not considered federal financial assistance, and participants in that program are not required to comply with Title VI's LEP obligations, unless they receive federal financial assistance as well. [24 CFR 1.2 (e)].

Does a person's citizenship and immigration status determine the applicability of the Title VI LEP obligations?

United States citizenship does not determine whether a person is LEP. It is possible for a person who is a United States citizen to be LEP. It is also possible for a person who is not a United States citizen to be fluent in the English language. Title VI is interpreted to apply to citizens, documented non-citizens, and undocumented non-citizens. Some HUD programs require recipients to document citizenship or eligible immigrant status of beneficiaries; other programs do not. Title VI LEP obligations apply to every beneficiary who meets the program requirements, regardless of the beneficiary's citizenship status.

What is expected of recipients under the Guidance?

The actions that the recipient may be expected to take to meet its LEP obligations depend upon the results of the four factor analysis including the services the recipient offers, the community the recipient serves, the resources the recipient possesses, and the costs of various language service options. All organizations would ensure nondiscrimination by taking reasonable steps to ensure meaningful access for persons who are LEP. HUD recognizes that some projects' budgets and resources are constrained by

contracts and agreements with HUD. These constraints may impose a material burden upon the projects. Where a HUD recipient can demonstrate such a material burden, HUD views this as a critical item in the consideration of costs in the four-factor analysis. However, refusing to serve LEP persons or not adequately serving or delaying services to LEP persons would violate Title VI. The agency may, for example, have a contract with another organization to supply an interpreter when needed; use a telephone service line interpreter; or, if it would not impose an undue burden, or delay or deny meaningful access to the client, the agency may seek the assistance of another agency in the same community with bilingual staff to help provide oral interpretation service.

What are examples of language assistance?

Language assistance that a grantee might provide to LEP persons includes, but is not limited to:

- Oral interpretation services
- Bilingual staff
- Telephone service lines interpreter
- Written translation services
- Notices to staff of the availability of LEP services
- Referrals to community liaisons proficient in the language of LEP persons.

How may a grantee determine the language service needs of a beneficiary?

Grantees should elicit language service needs from all prospective beneficiaries (regardless of the prospective beneficiary's race or national origin). If the prospective beneficiary's response indicates a need for language assistance, the grantee may want to give applicants or prospective beneficiaries a language identification card (or "I speak" card). Language identification cards invite LEP persons to identify their own language needs. Such cards, for instance, might say "I speak Spanish" in both Spanish and English, "I speak Vietnamese" in both Vietnamese and English, etc. To reduce costs of compliance, the federal government has made a set of these cards available on the Internet located at:
<https://www.lep.gov/resources/resources.html>

How may a grantee's limited resources be supplemented to provide the necessary LEP services?

A grantee should be resourceful in providing language assistance as long as quality and accuracy of language services are not compromised. The grantee itself need not provide the assistance but may decide to partner with other organizations to provide the services. In addition, local community resources may be used if they can ensure that language services are competently provided. In the case of oral interpretation, for example, demonstrating competency requires more than self-identification as bilingual. Some bilingual persons may be able to communicate effectively in a different language when communicating information directly in that language but may not be competent to interpret between English and that language.

In addition, the skill of translating is very different than the skill of interpreting and a person who is a competent interpreter may not be a competent translator. To ensure the quality of written translations and oral interpretations, HUD encourages grantees to use members of professional organizations. Examples of such organizations are national organizations, including American Translators Association (written translations), National Association of Judicial Interpreters and Translators, and International Organization of Conference Interpreters (oral interpretation); state organizations, including Colorado

Association of Professional Interpreters and Florida Chapter of the American Translators Association; and local legal organizations such as Bay Area Court Interpreters.

While HUD recommends using the list posted on the official LEP website, its limitations must be recognized. Use of the list is encouraged, but not required or endorsed by HUD. It does not come with a presumption of compliance. There are many other qualified interpretation and translation providers, including in the private sector.

May grantees rely upon family members or friends of the LEP person as interpreters?

Generally, grantees should not rely on family members, friends of the LEP person, or other informal interpreters. In many circumstances, family members (especially children) or friends may not be competent to provide quality and accurate interpretations. Therefore, such language assistance may not result in an LEP person obtaining meaningful access to the grantees' programs and activities. However, when LEP persons choose not to utilize the free language assistance services expressly offered to them by the grantee but rather choose to rely upon an interpreter of their own choosing (whether a professional interpreter, family member, or friend), LEP persons should be permitted to do so, at their own expense. Grantees may consult HUD LEP Guidance for more specific information on the use of family members or friends as interpreters. While HUD guidance does not preclude use of friends or family as interpreters in every instance, HUD recommends that the grantee use caution when such services are provided.

Are leases, rental agreements and other housing documents of a legal nature enforceable in U.S. courts when they are in languages other than English?

Generally, the English language document prevails. The translated documents may carry a disclaimer. For example, "This document is a translation of a HUD-issued legal document. HUD provides this translation to you merely as a convenience to assist in your understanding of your rights and obligations. The English language version of this document is the official, legal, controlling document. This translated document is not an official document." Where both the landlord and tenant contracts are in languages other than English, state contract law governs the leases and rental agreements. HUD does not interpret state contract law. Therefore, regarding the enforceability of housing documents of a legal nature that are in languages other than English should be referred to a lawyer well-versed in contract law of the appropriate state or locality. Neither EO 13166 nor HUD LEP Guidance grants an individual the right to proceed to court alleging violations of EO 13166 or HUD LEP Guidance.

In addition, current Title VI case law only permits a private right of action for intentional discrimination and not for action based on the discriminatory effects of a grantee's practices. However, individuals may file administrative complaints with HUD alleging violations of Title VI because the HUD grantee failed to take reasonable steps to provide meaningful access to LEP persons. The local HUD office will intake the complaint, in writing, by date and time, detailing the complainant's allegation as to how the state failed to provide meaningful access to LEP persons. HUD will determine jurisdiction and follow up with an investigation of the complaint.

Who enforces Title VI as it relates to discrimination against LEP persons?

Most federal agencies have an office that is responsible for enforcing Title VI of the Civil Rights Act of 1964. To the extent that a grantee's actions violate Title VI obligations, then such federal agencies will

take the necessary corrective steps. The Secretary of HUD has designated the Office of Fair Housing and Equal Opportunity (FHEO) to take the lead in coordinating and implementing EO 13166 for HUD, but each program office is responsible for its grantees' compliance with the civil rights related program requirements (CRRPRs) under Title VI.

How does a person file a complaint if he/she believes the state is not meeting its Title VI LEP obligations?

If a person believes that the state is not taking reasonable steps to ensure meaningful access to LEP persons, that individual may file a complaint with HUD's local Office of FHEO. For contact information of the local HUD office, go to the HUD website or call the housing discrimination toll free hotline at 800-669-9777 (voice) or 800-927-9275 (TTY).

What will HUD do with a complaint alleging noncompliance with Title VI obligations?

HUD's Office of FHEO will conduct an investigation or compliance review whenever it receives a complaint, report, or other information that alleges or indicates possible noncompliance with Title VI obligations by the state. If HUD's investigation or review results in a finding of compliance, HUD will inform the state in writing of its determination. If an investigation or review results in a finding of noncompliance, HUD also will inform the state in writing of its finding and identify steps that the state must take to correct the noncompliance. In a case of noncompliance, HUD will first attempt to secure voluntary compliance through informal means. If the matter cannot be resolved informally, HUD may then secure compliance by:

- Terminating the financial assistance of the state only after the state has been given an opportunity for an administrative hearing; and/or
- Referring the matter to DOJ for enforcement proceedings.

How will HUD evaluate evidence in the investigation of a complaint alleging noncompliance with Title VI obligations?

Title VI is the enforceable statute by which HUD investigates complaints alleging a grantee's failure to take reasonable steps to ensure meaningful access to LEP persons. In evaluating the evidence in such complaints, HUD will consider the extent to which the state followed the LEP Guidance or otherwise demonstrated its efforts to serve LEP persons. HUD's review of the evidence will include, but may not be limited to, application of the four-factor analysis identified in HUD LEP Guidance. The four-factor analysis provides HUD a framework by which it may look at all the programs and services that the grantee provides to persons who are LEP to ensure meaningful access while not imposing undue burdens on grantees.

What is a safe harbor?

A "safe harbor," in the context of this guidance, means that the grantee has undertaken efforts to comply with respect to the needed translation of vital written materials. If a grantee conducts the four-factor analysis, determines that translated documents are needed by LEP applicants or beneficiaries, adopts an LAP that specifies the translation of vital materials, and makes the necessary translations, then the grantee provides strong evidence, in its records or in reports to the agency providing federal financial assistance, that it has made reasonable efforts to provide written language assistance.

What "safe harbors" may grantees follow to ensure they have no compliance finding with Title VI LEP obligations?

HUD has adopted a "safe harbor" for translation of written materials, as outlined in Table 1 of this document. The Guidance identifies actions that will be considered strong evidence of compliance with Title VI obligations. Failure to provide written translations under these cited circumstances does not mean that the grantee is in noncompliance. Rather, the "safe harbors" provide a starting point for grantees to consider.

Whether and at what point the importance of the service, benefit, or activity involved warrants written translations of commonly used forms into frequently encountered languages other than English.

- Whether the nature of the information sought warrants written translations of commonly used forms into frequently encountered languages other than English.
- Whether the number or proportion of LEP persons served warrants written translations of commonly used forms into frequently encountered languages other than English; and
- Whether the demographics of the eligible population are specific to the situations for which the need for language services is being evaluated. In many cases, use of the "safe harbor" would mean provision of written language services when marketing to the eligible LEP population within the market area. However, when the actual population served (e.g., occupants of, or applicants to, the housing project) is used to determine the need for written translation services, written translations may not be necessary.

When HUD conducts a review or investigation, it will look at the total services the grantee provides, rather than a few isolated instances.

Is the grantee expected to provide any language assistance to persons in a language group when fewer than 5 percent of the eligible population and fewer than 50 in number are members of the language group?

HUD recommends that grantees use the four-factor analysis to determine whether to provide these persons with oral interpretation of vital documents if requested.

Are there "safe harbors" provided for oral interpretation services?

There are no "safe harbors" for oral interpretation services. Grantees should use the four-factor analysis to determine whether they should provide reasonable, timely, oral language assistance free of charge to any beneficiary that is LEP (depending on the circumstances, reasonable oral language assistance might be an in-person interpreter or telephone interpreter line).

What are the obligations of HUD grantees if they operate in jurisdictions in which English has been declared the official language?

In a jurisdiction where English has been declared the official language, a HUD grantee is still subject to federal nondiscrimination requirements, including Title VI requirements as they relate to LEP persons.

Where can I find more information on LEP?

Additional resources on HUD compliance policies and guidance can be found in the Final Guidance to Federal Financial Assistance Recipients Regarding Title VI Prohibition Against National Origin Discrimination Affecting Limited English Proficient Persons Notice: <https://www.gpo.gov/fdsys/pkg/FR-2007-01-22/pdf/07-217.pdf>. Complete LEP resources and information for all federal programs can be found on this website: <https://www.lep.gov/>

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ANNEX B. State of Missouri Public Notice, Schedule of Public Engagements, and Citizen Participation Plan for State CDBG-DR

Public Notice Requirement

The State of Missouri is the recipient of HUD CDBG-DR funds allocated through Federal Register Notice in response to Federally Declared Disasters in 2019. This notice states that Citizen Participation is to follow the requirements for the Federal Register Notice issued August 14, 2018 (83 FR 40314). The Federal Register Notice waives regular citizen participation requirements and states requirements for notifying the public regarding use of the disaster CDBG funds (CDBG-DR).

CDBG-DR Citizen Participation Waiver (83 FR 40314, August 14, 2018)

Citizen participation waiver and alternative requirement. To permit a more streamlined process and ensure disaster recovery grants are awarded in a timely manner, provisions of 42 U.S.C. 5304(a)(2) and (3), 42 U.S.C. 12707, 24 CFR 570.486, 24 CFR 1003.604, and 24 CFR 91.115(b) and (c), with respect to citizen participation requirements, are waived and replaced by the requirements below. The streamlined requirements do not mandate public hearings but do require the grantee to provide a reasonable opportunity (at least 30 days) for citizen comment and ongoing citizen access to information about the use of grant funds. The streamlined citizen participation requirements for a grant under this notice are:

- Publication of the action plan, opportunity for public comment, and substantial amendment criteria. Before the grantee adopts the action plan for this grant or any substantial amendment to the action plan, the grantee will publish the proposed plan or amendment. The manner of publication must include prominent posting on the grantee's official website and must afford citizens, affected local governments, and other interested parties a reasonable opportunity to examine the plan or amendment's contents. The topic of disaster recovery should be navigable by citizens from the grantee's (or relevant agency's) homepage. Grantees are also encouraged to notify affected citizens through electronic mailings, press releases, statements by public officials, media advertisements, public service announcements, and/or contacts with neighborhood organizations. Plan publication efforts must meet the effective communications requirements of 24 CFR 8.6 and other fair housing and civil rights requirements, such as the effective communication requirements under the Americans with Disabilities Act.

Schedule of Public Engagements

The State of Missouri will use two primary means to engage citizens for their comments on the 2019 CDBG-DR Action Plan. The two means are Website and Public Meetings.

1. Website Public Comment

On XXXXX XX, 2020 the State of Missouri's 2019 CDBG-DR Action Plan was posted for public comment on the Department of Economic Development website <https://ded.mo.gov/content/community-development-block-grants>, (ded.mo.gov – Community Development Block Grant Disaster Recovery).

Comments regarding the CDBG-DR Action Plan were accepted through XXXX XX, 2020. Comments were accepted at the CDBG-DR email address: MOCDBG-DR@ded.mo.gov. Comments regarding the CDBG-DR Action Plan were also accepted via web form submission at: <https://ded.mo.gov/content/community-development-block-grant-disaster-recovery>. Comments could also be mailed to the Missouri Department of Economic Development, 301 W. High Street, P.O. Box 118, Jefferson City, MO 65102.

2. Public Meetings

The State of Missouri will conduct four (4) virtual Public Meetings using WebEx. Two of these meetings will be during the daytime and two will be in the evening. The dates and times for these Public Meetings are:

- XXX XX, 2020 at XXXam
- XXX XX, 2020 at XXXpm
- XXX XX, 2020 at XXXam
- XXX XX, 2020 at XXXpm

Per the Federal Register's streamlined approach for CDBG-DR, public hearings are not required during the 30-day comment period. The State of Missouri feels that Virtual Public Meetings are warranted for the purposes of more comprehensive public involvement and understanding.

All public meetings will be held at a time and accessible location convenient to potential and actual beneficiaries, and with accommodations for persons with disabilities or limited English proficiency (LEP). The virtual public meetings will be promoted through a statewide press release, posting on the CDBG-DR website and notices placed in newspapers in geographic proximity to the location of the hearing for at least 10 business days prior to the hearing.

Public notification of the Public Meeting will be emailed via DED Communications and will be posted at <https://ded.mo.gov/DisasterRecovery>. This notice indicates that public meetings will be held virtually (via WebEx).

STATE OF MISSOURI CITIZEN PARTICIPATION PLAN FOR STATE CDBG, CDBG-CV, CDBG-DR, AND CDBG-MIT

1. Purpose

The State of Missouri has adopted a Citizen Participation Plan (CPP) that sets forth the State's procedures for citizen participation in the development and implementation of HUD funded activities and programs. Development of Action Plans, Consolidated Plans, and Substantial

amendments to the Consolidated Plan and Action Plans for State CDBG, CDBG-CV, CDBG-DR, and CDBG-MIT, and the Assessment of Fair Housing (AFH) will require public notice and engagement.

The State of Missouri constructs a thorough citizen participation plan that encourages citizens to participate in the development of:

- The Five-Year Consolidated Plan (State HUD Programs)
- Annual Action Plans and Substantial Amendments (State HUD Programs)
- Action Plans and Substantial Amendments for COVID-19 (State CDBG-CV Programs)
- Assessment of Fair Housing (AFH)
- Mitigation Action Plan (CDBG-MIT Programs)
- Disaster Recovery Action Plan (CDBG-DR Programs)

The Citizen Participation Plan was developed in accordance with the requirements listed in 24 CFR Part 91.115 (Citizen Participation Plan for States) and HUD requirements contained in the relative Federal Register Notices allocating funds for disaster recovery and mitigation. These requirements are designed to encourage participation by low- to moderate-income persons, particularly those living in blighted areas and/or disaster impacted communities, and those living in areas where CDBG, CDBG-DR, and CDBG-MIT funds are proposed to be used. The plan provides citizens (including minorities, disabled, and non-English speaking persons), units of local government, Tribes, Continuums of Care, organizations (including businesses, developers, nonprofit organizations, philanthropic organizations, community-based, and faith-based organizations) and other interested parties a reasonable opportunity to comment on the plan and encourages them to do so.

2. Outreach

The Missouri Department of Economic Development (DED), as Lead Agency for the State of Missouri HUD grants, will ensure HUD requirements for citizen engagement are met. Prior to the release and following the publication of any plan (Draft Consolidated Plan, Action Plans, or AFH), the State will use several techniques to encourage a shared vision of change for the community and the review of program performance. The techniques are clarified throughout the Citizen Participation Plan. In summary they include:

- Informational Meetings and Public Hearings
- Webinars
- Postings on DED and Missouri Housing Development Commission (MHDC) websites
- DED and MHDC community emails
- Notices provided to local governments and other local partners via Missouri's regional planning commissions and councils of governments, the Missouri Municipal League, and the Missouri Association of Counties

The Disaster Recovery and Mitigation Action Plans will also be supported by:

- Postings and notices on the DED website.
- Formation of one or more Citizen Advisory Committees
- Formal invitation to key stakeholders, including any separate agency of the jurisdiction that is responsible for the development of FEMA Hazard Mitigation Plan, including the State Hazard Mitigation Officer.

The State of Missouri will make the CPP available to the public to offer its citizens and units of general local government a reasonable opportunity to comment on the CPP and any subsequent substantial CPP amendments.

3. Citizen Participation Plan and Accessibility for CDBG, CDBG- CV, CDBG-DR, & CDBG-MIT

To ensure minorities and persons with disabilities have prior notice and access to the public hearings, DED will take the following actions:

- Announce public hearings to organization that represent minorities and person with disabilities at least 10 days prior to the public hearing date(s).⁷⁰
- Include a statement in public hearing notices indicating that attendees may request language interpretation to assist in their participation.
- Include a statement in notices of public hearings that location of the meetings is accessible to person with physical disabilities.
- Include a statement in public hearing notices that attendees can request reasonable accommodations from the State to participate in the meeting.
- Notify organizations representing minorities that every reasonable effort will be made to translate documents including access to “Google Translate” on the State’s website.

Residents who require special accommodations to attend the hearing, should contact the state by emailing Marcy Mealy, mocdbg@ded.mo.gov and/or calling 1-800-253-0609 to make advance arrangements. For hearings that are held in areas that meet the minimum threshold for limited English proficiency (LEP) accommodations, translations will be provided.

DED provides guidance to its Units of Local Government (UGLG) on developing a local language access plan (LAP). This guidance is provided as Attachment A of this document. Provisions for interpretation shall be made for LEP residents to encourage and ensure meaningful access to participation for public hearings, communication materials, websites, and public comments.

4. Regular State CDBG Consolidated Plan and Annual Action Plan - Public Notice and Comment Period

Every five (5) years the State of Missouri completes a Consolidated Plan for its HUD funded programs. The Consolidated Plan is carried out through Annual Action Plans, which provide a concise summary of the actions, activities, and the specific federal and non-federal resources that will be used each year to address the priority needs and specific goals identified by the

Consolidated Plan. Before the State adopts the Consolidated Plan, residents, public agencies and other interested parties are given access to information about the programs involved in the plan, including:

- The amount of assistance the State expects to receive.
- The range of activities that may be undertaken, including the estimated amount that will benefit persons of low- to moderate- income.
- The plans to minimize displacement of persons and to assist any persons displaced.

Note: An exception will be made to the 10-day timeframe when exercising the CARES Act flexibilities which allows a 5 day public comment period.

Prior to beginning the Consolidated Plan or Annual Action Plan process, the State will hold a meeting to inform the public and interested parties of the upcoming Consolidated Plan/Action Plan process approximately 45 days prior to the release of the draft plans each year.

The State will provide notice of this meeting via the following methods:

- Notice posted on Department of Economic Development and MissouriHousing Development Commission websites
- Notices provided to local governments and other local partners via Missouri's regional planning commissions and councils of governments, the Missouri Municipal League, and the Missouri Association of Counties
- Department of Economic Development community group emails (approximately 4,000 communities and community organizations statewide)
- Missouri Housing Development Commission community group emails
- State's public housing agencies
- Missouri Commission on Human Rights
- State's community action agencies

Publishing the Plan with Reasonable Opportunity for Public Review

The State will make every effort to publish the proposed Consolidated Plan in a manner that affords residents, units of general local governments, public agencies, and other interested parties a reasonable opportunity to examine its contents and to submit comments.

Website

To notify the public of the CDBG-DR Plan's availability, DED will post the CDBG-DR Action Plan and Substantial Amendments on the CDBG-DR web page: <https://ded.mo.gov/DisasterRecovery>. The CDBG-DR web page is linked to the State's main website: <https://ded.mo.gov/> and the CDBG-MIT web page: CDBG-MIT address <https://ded.mo.gov/programs/cdbg/mitigation>. For further information regarding the website content please see Attachment B - Website Policy.

Additional public notification is provided via newsletter, press release, direct email, and through partnering associations such as the Missouri Municipal League and Missouri Association of Counties. The plan and a schedule of upcoming public meetings is sent to other partner state agencies via email to identify the locations where the plans will be available for review. The announcement will also explain that interested parties are given a reasonable opportunity to examine the contents of the plans and submit comments. The State will provide a free copy of the plans to interested parties upon request and will make the plan available during the meetings. A press release will be issued statewide, notifying the public of the Action Plan or Consolidated Plan process, the opportunity to review the plan, and the schedule of public meetings.

Public Hearings

Public Hearings are not required for these funds. However, if the State were to determine a public hearing would be in the best interest of the State and its residents, the public hearing will be held virtually and in compliance with the guidance above.

Time Period for Comments

The State provides approximately 30-days to receive comments from residents and units of local government on the plans (Consolidated Plan; Action Plan; AFH). During that time period, the State schedules at least four public hearings around the state to present the content of the plan (Consolidated Plan; Action Plan; AFH) and receive and record comments from the public.

The plan will be available on the DED website (www.ded.mo.gov) and the MHDC website www.mhdc.com.

Consideration of Public Comments

The State considers any comments or views of residents and units of general local government received in writing or orally at the public hearings, and also during the 30-day comment period in preparing the final consolidated plan. A summary of these comments, including those not accepted and reasons, therefore, will be attached to the final AFH, Action Plan or Consolidated Plan.

Substantial Amendment

Substantial amendments to either the Action Plan, Consolidated Plan or the AFH requires public notice. The thresholds for a substantial amendment are as follows:

- Action Plan or Consolidated Plan – An amendment shall be considered substantial (requiring public notification and comment period) in the following events:
 - Adding a new funding source to the Plan
 - Annual allocations from HUD differ more than 10% of the projected amount
 - A new funding category is created or more than 25% of the annual allocation is

transferred between funding categories for the CDBG program

- Assessment of Fair Housing (AFH) – an amendment shall be considered substantial (requiring public notification and comment period) in the following events:
 - A material change in circumstances that affects the information on which the AFH is based. Examples include, but are not limited to, a Presidentially declared disaster event that are of such a nature to impact the steps required to affirmatively further fair housing, significant demographic changes, new significant contributing factors in the State's jurisdiction, and civil rights findings, determinations, settlements, or court orders.

The State will provide public notice of the substantial amendments to the plan and the subsequent hearings via the following methods:

- Notice posted on DED website (www.ded.mo.gov) and the MHDC website (www.mhdc.com)
- Notices provided to local governments and other local partners via Missouri's regional planning commissions and councils of governments, the Missouri Municipal League, and the Missouri Association of Counties
- Department of Economic Development community group emails (approximately 4,000 communities and community organizations statewide)
- Missouri Housing Development Commission community group emails
- State's public housing agencies
- Missouri Commission on Human Rights
- State's community action agencies

The State provides approximately 30-days to receive comments from residents and units of local government on the substantial amendments of the plan (Consolidated Plan; Action Plans; AFH).

Written comments may be submitted by mail at **P.O. Box 118, Jefferson City, MO 65109** and/or email at mocdbg@ded.mo.gov at any time during the public comment period and may be directed to any of the State participating agencies (departments of Economic Development, Health and Senior Services, and Social Services, and the Missouri Housing Development Commission.

The State considers any comments or views of residents and units of general local government received in writing or orally at the public hearings, in preparing the substantial amendment of the plans (Consolidated Plan; Action Plans; AFH). A summary of these comments, including those not accepted and reasons, therefore, will be attached to the final AFH, action plan or consolidated plan.

Performance Reports

The State provides reasonable notice and an opportunity to comment on performance reports made by the programs involved with Consolidated Plan and Annual Action Plan. Data contained in

the performance reports is compiled and sent out approximately two months after the end of the program year. The program year associated with the Consolidated Plan ends on March 31 of each year.

Copies of the actual performance reports are available electronically, posted on the CDBG website, and notice of the posting is sent to 20 public agencies around the State. The public is provided a 30-day comment period and may submit written comments by mail at **P.O. Box 118, Jefferson City, MO 65109** and/or email at mocdbg@ded.mo.gov at any time during the public comment period.

Comments received on the performance reports are recorded, and a summary of the comments is attached to the performance report which is submitted no later than June 1 for the Consolidated Plan.

Requirements for Local Governments Receiving CDBG-DR Funds

The State of Missouri will conduct four public meetings via WebEx. Two will be in the daytime and then two in the evening. The public meetings will address the items below:

- The determination of needs
- The review of proposed activities
- The review of past program performance
- Submission of applications for the Acquisition and Buyout activities

Recipients of CDBG-DR funds must comply with the State Citizen Participation Plan requirements as found in 24 CFR 570. All applicants and recipients of grant/loan funds shall be required to conduct all aspects of the program in an open manner with access to records on the proposed and actual use of funds for all interested persons. All records of applications and grants must be kept at the recipient's offices and be available during normal business hours. Any activity of the Grantee regarding the CDBG-DR project, except for confidential matters relating to housing and economic development programs, shall be open to examination by all citizens.

The applicant/recipient must provide technical assistance to groups representative of persons of low and moderate income that request such assistance in developing proposals at the level of expertise available at governing offices. All application materials and instructions shall be provided at no cost to any such group requesting them. Citizens shall be provided adequate and timely information, to enable them to be meaningfully involved in important decisions at the various stages of the program, including at least the determination of needs, the review of the proposed activities, and the review of past program performance, in the following manner:

- 1) The State of Missouri will hold four public meetings via WebEx will be held prior to the submission of an application for housing and/or non-housing needs being submitted to the State for funding through the CDBG-DR program. Meetings shall be scheduled at a time and location felt to be most likely possible of the majority of interested citizens to attend without undue inconvenience. The development of needs and the review of the proposed

activities and their possible environmental impact must be addressed at this hearing as reflected by minutes of the hearing.

2) Notification of all hearings shall be given a minimum of five (5) full days (actually seven days, as the day of the notice and the day of the hearing cannot be counted as one of the five full days) in advance to allow citizens the opportunity to schedule their attendance. Notification shall be in the form of display advertisements in the local newspaper with the greatest distribution, and/or by posting letters, flyers, and any other forms that are clearly documented with wide circulation.

- a. All hearings must be accessible to handicapped persons. Provisions for interpretation shall be made at all public hearings for non-English speaking residents if such residents are expected to be in attendance. The chief elected official's office shall receive and relate to appropriate persons or groups any views or proposals submitted to aforesaid office within the decision-making time. Any criticism submitted in writing at any time should be answered in writing within fifteen working days by the chief elected official's office. If the complaint is not resolved, it shall be referred to the governing body for final disposition.

Action Plan Availability to the Public

The state will provide the Action Plan, as adopted, substantial amendments, and the performance reports to the public, including materials in a form accessible to persons with disabilities, upon request. These documents are made available to the public electronically at (<https://ded.mo.gov/DisasterRecovery>).

The State will provide the Consolidated Plan and Annual Action Plan, as adopted, substantial amendments and the performance reports to the public. These documents are made available to the public electronically at (www.ded.mo.gov) and the MHDC website (www.mhdc.com).

The 2019 CDBG-DR Action Plan, substantial amendments are available upon request and will be provided to anyone requesting them. Materials will be provided in a form accessible to persons with disabilities or limited English proficiency (LEP) upon request. Requests may be made by email to Marcy Mealy at mocdbg@ded.mo.gov or by calling 1- 800-253-0609.

Access to Records

Residents, public agencies and other interested parties are given reasonable and timely access to the information and records relating to the State's CDBG Action Plan and the State's use of assistance under the programs covered by the plan per 24 CFR 570.508 Presentation materials, resources used to compile the information in the plan, comments compiled at public hearings, and all other related materials from previous 5 years are available to the public upon request. Requests may be made by email to ecodev@ded.mo.gov or by calling Marcy Mealy, 1-800-253-0609.

Complaints

Citizens who wish to voice a complaint related to the published Action Plan, any substantial amendments to the Action Plan, performance reports, or other issues related to CDBG funded activities may do so through the contact provided below:

Complaints should be sent in writing to:

Candace Buford, Program Coordination Specialist
P.O. Box 118
Jefferson City, MO 65109
mocdbg@ded.mo.gov
1-(800) 253-0609

DED will provide a timely, written response to all written citizen complaints. The response to a complaint will be provided within fifteen (15) business days of receipt of the complaint.

Complaints regarding fraud, waste, or abuse of government funds will be forwarded to the HUD OIG Fraud Hotline (phone: 1–800–347–3735 or email: hotline@hudoig.gov).

Complaints regarding accessibility can be reported to the State's 504 Coordinator. Plan publication efforts must meet the effective communications requirements of 24 CFR 8.6 and other fair housing and civil rights requirements, such as the effective communication requirements under the Americans with Disabilities Act.

State 504 Accessibility Coordinator:

Amy Werner, Compliance Specialist
MO Department of Economic Development
301 W. High Street, Suite 700
P.O. Box 118
Jefferson City, MO 65102
(573) 751-2039

Citizen Participation Plan

The State will follow the citizen participation plan in full and to the best ability possible, as described above.

State CDBG 2019/2020 CARES Act Flexibilities

DED will implement the following guidance from HUD regarding new flexibilities under the CARES Act. *The Coronavirus Aid, Relief and Economic Security Act (CARES Act) (Public Law 116-136)*

makes available \$5 billion in supplemental Community Development Block Grant (CDBG) funding for grants to prevent, prepare for, and respond to coronavirus (CDBG-CV grants). Additionally, the CARES Act provides CDBG grantees with flexibilities that make it easier to use CDBG-CV grants and fiscal years 2019 and 2020 CDBG Grants for coronavirus response and authorizes HUD to grant waivers and alternative requirements.

HUD has advised Grantees (including the State of Missouri) to amend or prepare their plans as soon as possible and not to wait for the pending Federal Register notice, which may provide additional waivers and alternative requirements. Similarly, grantees should not wait for HUD to allocate the remaining nearly \$3 billion of the \$5 billion provided by the CARES Act for the CDBG program. Upon publication of the Federal Register notice and subsequent allocations, grantees receiving allocations will then amend plans accordingly.

To expedite grantees' use of CDBG-CV funds, HUD is waiving the requirements at 42 U.S.C. 12705(a)(2) to the extent it requires updates to the housing and homeless needs assessment, housing market analysis, and strategic plan and 24 CFR 91.220 and 91.320 to the extent the action plan is limited to a specific program year to permit grantees to prepare substantial amendments to their most recent annual action plan, including their 2019 annual action plan. Grantees must identify the proposed use of all funds and how the funds will be used to prevent, prepare for, and respond to coronavirus.

DED is also waiving 24 CFR 91.505 to facilitate the use of the CDBG-CV funds to the extent necessary to require submission of the substantial amendment to HUD for review in accordance with 24 CFR 91.500. To receive a CDBG-CV grant, a grantee must also submit a SF-424, SF-424D and the certifications at 24 CFR 91.225(a) and (b) or 24 CFR 91.325(a) and (b).

Citizen Participation and Public Hearings for Consolidated Plans (including Action Plans)⁷²

⁷¹ Subject to CDC guidance for COVID-19.

⁷² *CARES Act Flexibilities for CDBG Funds Used to Support Coronavirus Response and Plan Amendment Waiver*, HUD Memorandum, April 9, 2020

Description of Program Flexibility	Applicability to CDBG-CV and CDBG Grants		
<p>Provides that grantees may amend citizen participation plans to establish expedited procedures to draft, propose, or amend consolidated plans.</p> <p>Expedited procedures must include notice and reasonable opportunity to comment of no less than 5 days. The 5-day period can run concurrently for comments on the action plan amendment and amended citizen participation plans.</p>	CDBG-CV	Immediately Available	
	CDBG FY 19 and FY 20		
	CDBG Grants before FY 19		Not Available

Time Period for Comments

The State will provide a minimum of five (5) days for public comments for Substantial Amendments to the 2019/2020 CDBG Action Plans when using CDBG funds to respond to public health emergencies caused by COVID-19.

Consideration of Public Comments

The State considers any comments or views of residents and units of general local government received in during the public comment period. A summary of these comments, including those not accepted and reasons, therefore, will be attached to the final Action Plan or Consolidated Plan.

5. State CDBG-CV Action Plan and Amendments (TBD)

Further waivers or alternative requirements will be announced in the Federal Register Notice for the CARES Act and will detail specific requirements for CDBG-CV. Until further direction is provided by HUD, CDBG-CV public participation will follow the guidance above.

6. CDBG-DR Action Plans - Public Notice and Comment Periods

The State of Missouri is also the recipient of HUD CDBG-DR funds allocated through Federal Register Notices in response to Federally Declared Disasters in 2017 and 2019. These notices state that Citizen Participation is to follow the requirements for the Federal Register Notice issued August 14, 2018 (83 FR 40314). The Federal Register Notice waives regular citizen participation requirements and states requirements for notifying the public regarding use of the disaster CDBG funds (CDBG-DR).

CDBG-DR Action Plan

DED will post the draft CDBG-DR Action Plan or any Substantial Amendment for at least 30 days of public comment on the CDBG-DR website: <https://ded.mo.gov/DisasterRecovery>. Notice of all hearings will be posted a minimum of 10 business days prior to public hearings.

The state makes every effort to publish the draft CDBG-DR Action Plan in a manner that affords citizens, units of general local governments, public agencies, and other interested parties a reasonable opportunity to examine its contents and to submit comments. The plan will remain available on the DED website <https://ded.mo.gov/DisasterRecovery>.

To notify the public of the plan's availability, public notification is provided via newsletter, press release, direct email and via partnering associations such as the Missouri Municipal League and Missouri Association of Counties. The plan is also sent to other partner state agencies. The public announcement explains that interested parties are given a reasonable opportunity to examine the contents of the plans and submit comments, as the state will also provide a copy of the plans to interested parties upon request.

- The state will make the plan available for a **minimum 30-day comment period**.

The state considers any comments or views of citizens and units of general local government received in writing or orally in preparing the final CDBG-DR Action Plan. A summary of these comments, including those not accepted and reasons, therefore, will be attached to the final CDBG-DR Action Plan.

HUD Most Impacted and Distressed Areas

HUD identified the following areas as Most Impacted and Distressed Areas (MIDs) for Missouri's 2019 DR-4451 Disaster: St. Charles County, Zip Code 64437 (Holt County) and Zip Code 65101 (Cole County).

State Most Impacted and Distressed Areas

The State of Missouri has identified Cole, Holt and St. Charles Counties as State MID Counties.

ANNEX C. State of Missouri 2019 CDBG-DR Public Comments & Responses

Consideration of comments

The State considers any comments or views of residents and units of general local government received in writing or orally in preparing the final CDBG-DR Action Plan. A summary of these comments will be attached to the final Action Plan or Substantial Amendment.

To aid in clarity for the reader, misspelled words in the comments were corrected, but no content of the comment was edited.

Comment #1-

Commenter-

Response #1 -

Comment #2-

Commenter-

Response #2-

Attachment B: State of Missouri Website Policies and Procedures for CDBG-DR and CDBG-MIT

1. Website Purpose

The State of Missouri is currently creating and will maintain comprehensive websites for the U. S. Department of Housing and Urban Development (HUD), Community Development Block Grant-Disaster Recovery (CDBG-DR) in accordance with HUD requirements, as cited in Federal Register Notice, 83 FR 5844, February 9, 2018 (Prior Notice for 83 FR 40314, August 14, 2018 which allocated \$58,535,000 of CDBG-DR funds to Missouri). CDBG-DR funds must be used to address unmet needs (with a priority focus on housing) that can be tied-back to the 2017 disasters declared under DR-4317.

Concurrently, DED will also create and maintain a CDBG Mitigation (CDBG-MIT) web page linked to the CDBG-DR web page in accordance with Federal Register Notice 84 FR 45838, August 30, 2019. CDBG-MIT funds must be used to address Mitigation Risks identified in the CDBG-MIT Action Plan. All CDBG-MIT activities must address mitigation of future disasters.

The websites serve as a central source for CDBG-DR and CDBG-MIT information and is intended to provide transparency into the State of Missouri's disaster recovery activities using these funds. The website will host: Action Plans and Amendments; Citizen Participation Policies; Public Hearing Notices; CDBG-DR and CDBG-MIT program policies, eligibility requirements, and steps to apply for funding; procurement policies, solicitations, and awarded contracts (including those procured by subrecipients); procedures for Complaints, Appeals, and fraud reporting; Quarterly Performance Reports (QPRs); expenditure projections and outcomes; and for CDBG-MIT, information on the Citizens Advisory Group for Mitigation.

The Lead Agency (i.e. Grantee) for Missouri's CDBG-DR and CDBG-MIT allocations has been designated as the Missouri Department of Economic Development (DED). This department is also the Lead Agency for the State's annual CDBG allocation. DED currently manages websites associated with the State's CDBG program.

2. Website Content

The DED website address for CDBG-DR is located: <https://ded.mo.gov/DisasterRecovery>

The DED website address for CDBG-MIT is located: <https://ded.mo.gov/mitigation>

Each program page will have links to its counterpart (i.e., the CDBG-DR page will link to the CDBG-MIT page and vice versa).

Website locations will be printed on all program advertisements and outreach materials. The State of Missouri adheres to ADA compliant standards for website accessibility and readability. Content and website layout will be designed with best practices for adaptive use in mind. The State supports accommodations for citizens with limited English proficiency and will publish program documents in

languages based on the need of non-English-speaking communities.

The information that will be available for CDBG-DR on the DED website will include but may not be limited to the following:

CDBG-DR Requirements

- CDBG-DR Unmet Needs Assessment
- CDBG-DR Action Plan and Amendments
- CDBG-DR Announcements of Public Hearing(s)
- Citizen Participation Plan
- Accessibility and LEP requirements
- Information on each CDBG-DR program, eligibility requirements, and steps to apply
- CDBG-DR Appeals Procedure
- CDBG-DR Citizen Complaint Procedures
- List of all CDBG-DR Sub-Recipients and Contractors
- CDBG-DR Procurement
 - Procurement Policies
 - Current RFPs
 - Eligibility for competitive sub-awards (if applicable)
 - Awarded contracts and sub-recipient contract summary
- CDBG-DR Quarterly Performance Reports (QPR)
- A link to CDBG-MIT web page
- Additional reporting as required by HUD

CDBG-MIT Requirements

The information on the CDBG-MIT web page will include but may not be limited to:

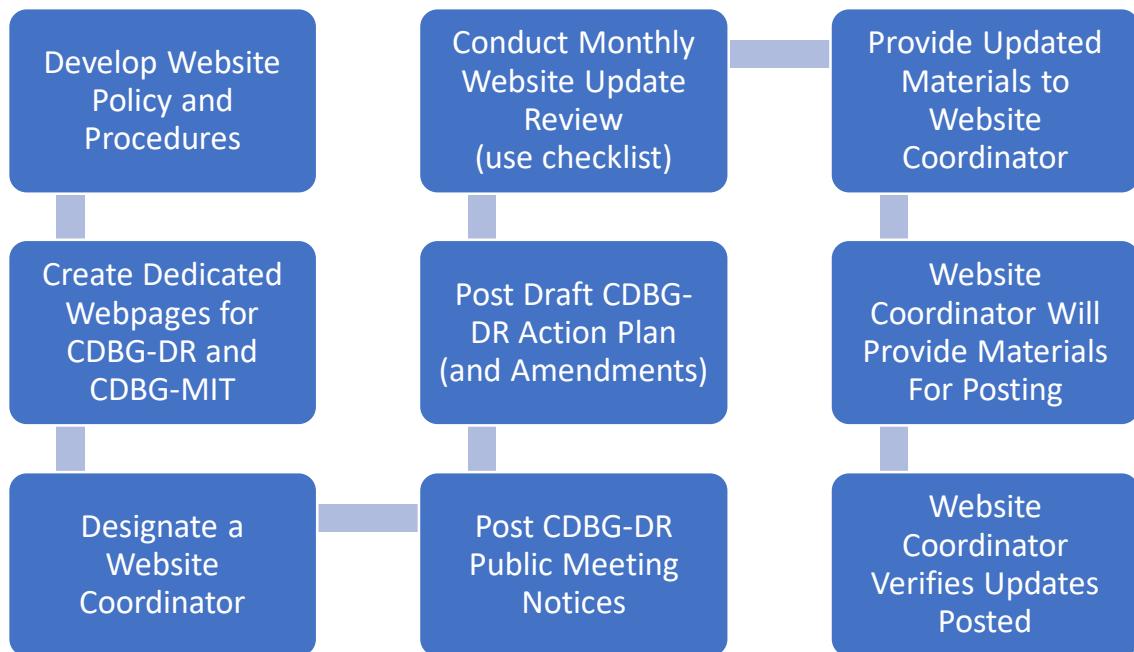
- CDBG-MIT Risk Assessment
- CDBG-MIT Action plans and amendments
- CDBG-MIT Announcements and Public Hearings
- Citizen Participation Plan
- Accessibility and LEP requirements
- Information on each CDBG-MIT program, eligibility requirements, and steps to apply

- CDBG-MIT Appeals Procedures
- CDBG-MIT Citizen Complaint Procedures
- List of all CDBG-MIT Sub-Recipients and Contractors
- CDBG-MIT Procurement
 - Procurement Policies
 - Current RFPs
 - Eligibility for competitive sub-awards
 - All awarded contracts to be paid with CDBG-MIT
- CDBG-MIT Quarterly Performance Reports
- CDBG-MIT Statistics/graphics displaying expenditures and outcomes to date and projections
- A link to the CDBG-DR web page
- Additional reporting as required by HUD
- Information on the Citizen's Advisory Group for Mitigation

3. Website Process

DED Website Coordinator will ensure that the CDBG-DR and CDBG-MIT webpages are reviewed monthly and updated as required by this website policy. The Website Coordinator will use the Monthly Website Update Checklist to complete the review. The website will be reviewed on the 30th of each month and updated materials will be posted by the 15th of the following month.

Website Development and Administration Process

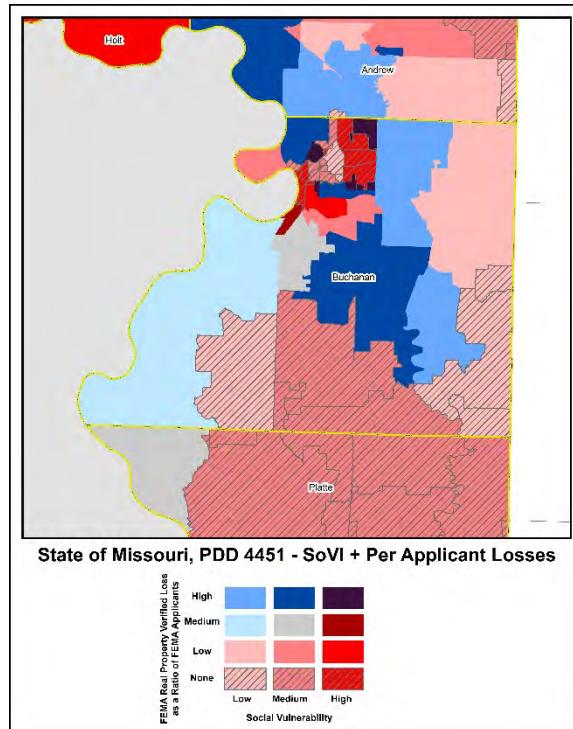
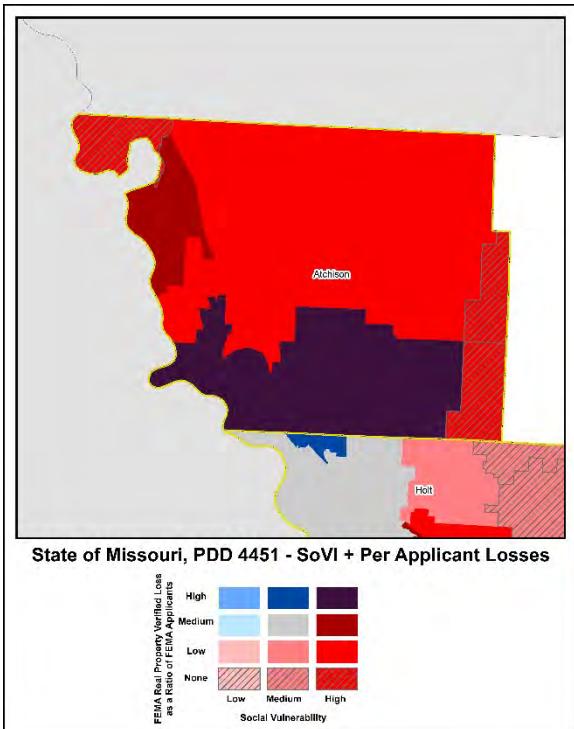
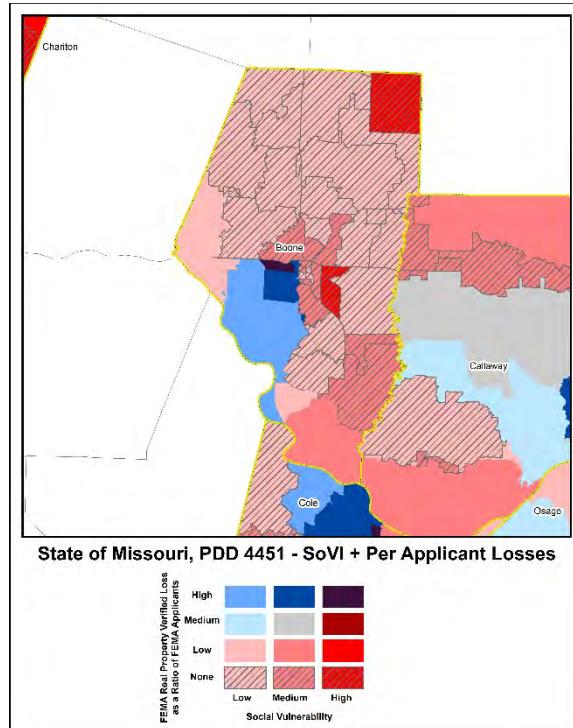
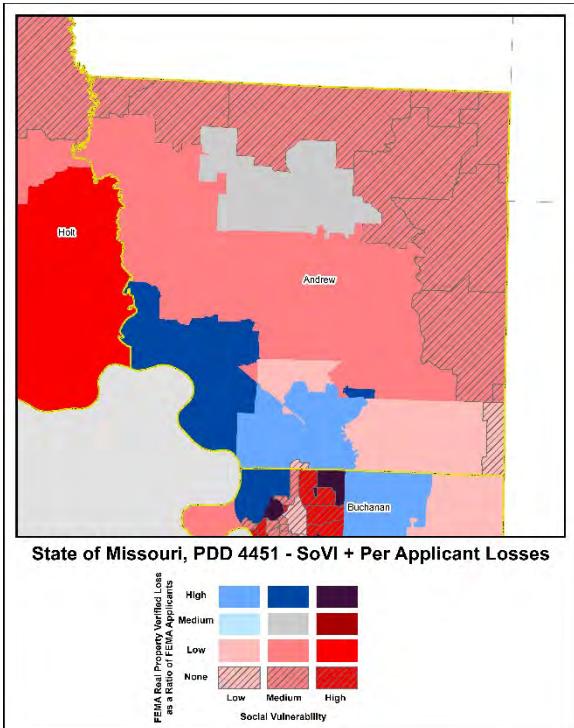


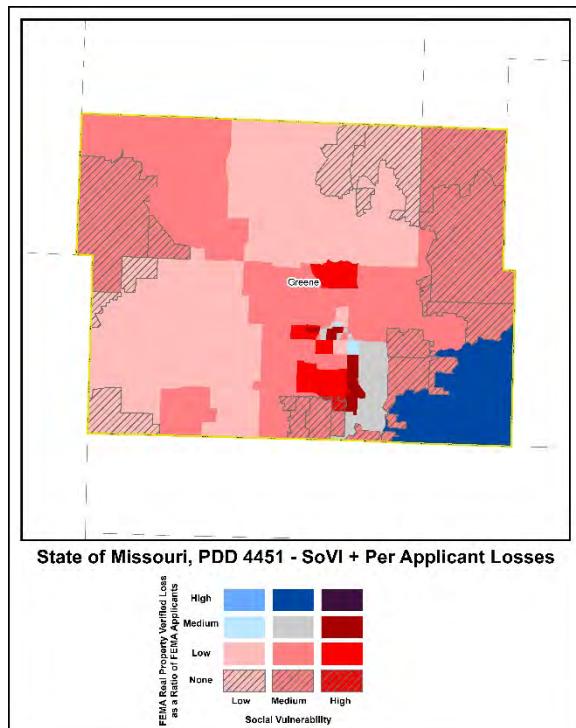
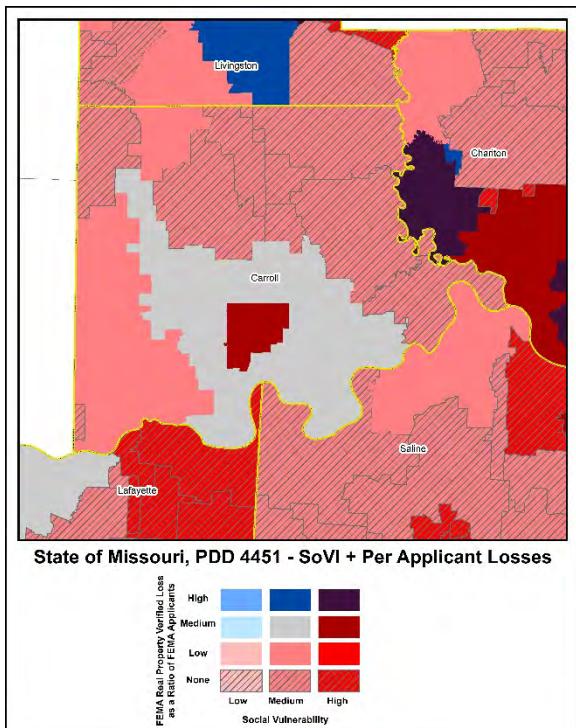
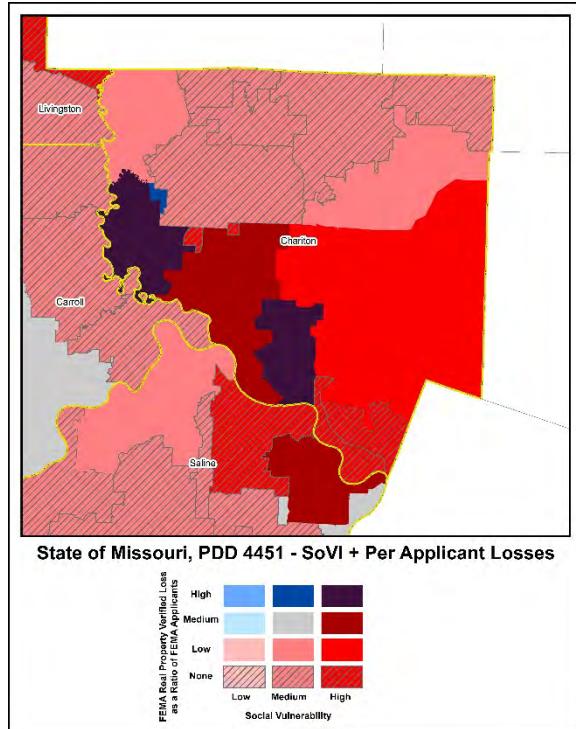
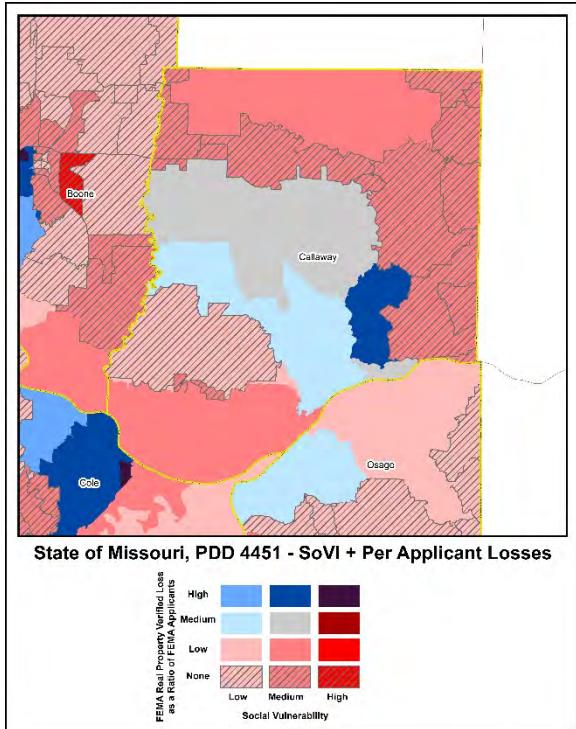
Responsible Staff

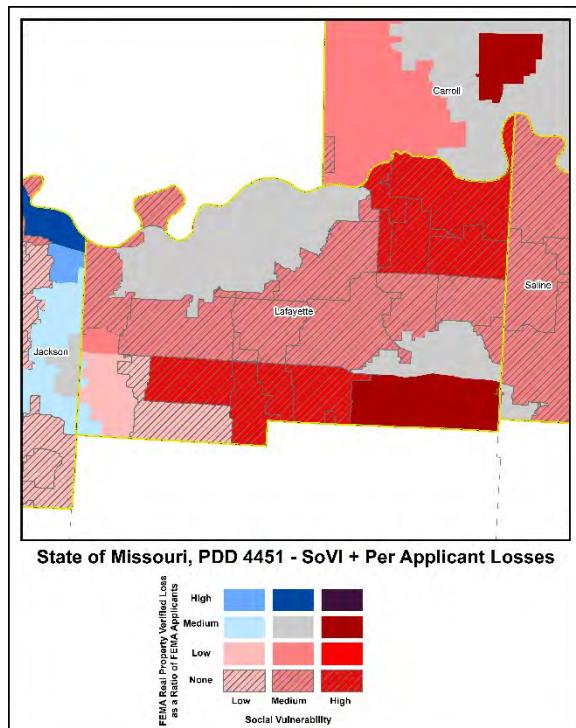
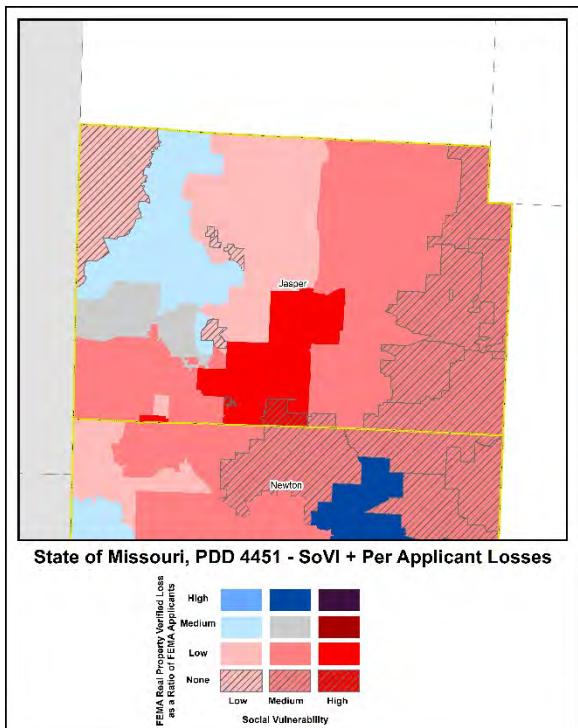
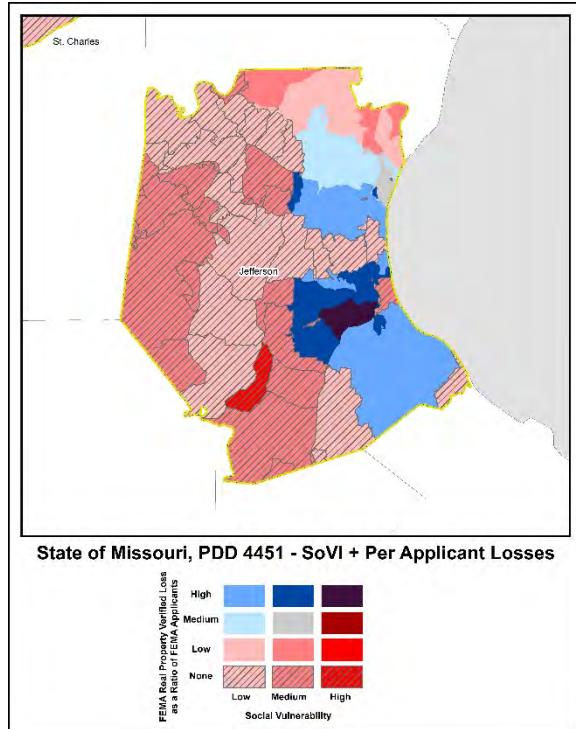
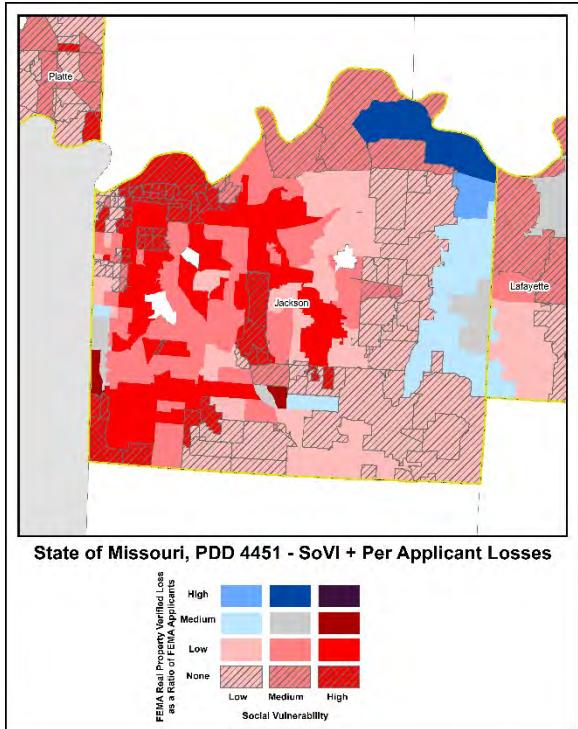
Staff Name	Website Role	Contact Information
CDBG Program Coordinator	Website Coordinator	Candace Buford Candace.Buford@ded.mo.gov 573-751-3600
Budget and Planning Officer, CDBG Financial Management Team	CDBG-DR Content Reviewer	Marcy Mealy Marcy.Mealy@ded.mo.gov 573-522-8569
Budget and Planning Officer, CDBG Financial Management Team	CDBG-MIT Content Reviewer	
DED Division of Strategy and Performance Communications Team	CDBG-DR Content Approver	

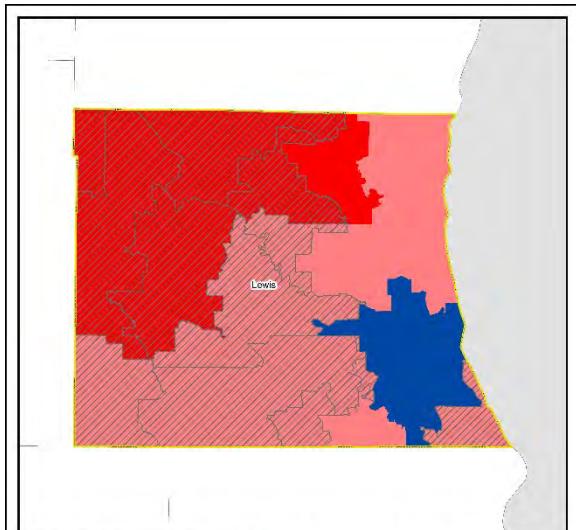
DED Division of Strategy and Performance Communications Team	CDBG-MIT Content Approver	Maggie Kost Maggie.Kost@ded.mo.gov 573-751-9065
DED Division of Strategy and Performance Communications Team	Website Content Manager (Upload docs to websites)	
DED Division of Strategy and Performance Communications Team	Website Content Manager (Upload docs to websites)	

Appendix A: DR-4451, IA County Bivariate SoVI and Real Property Losses

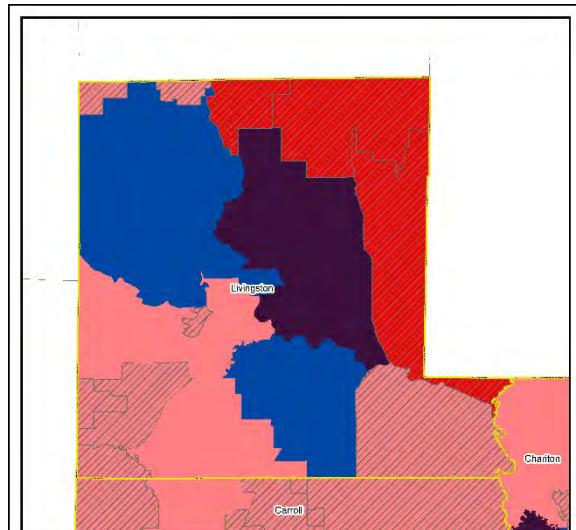
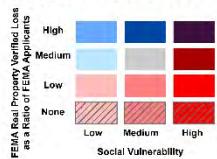




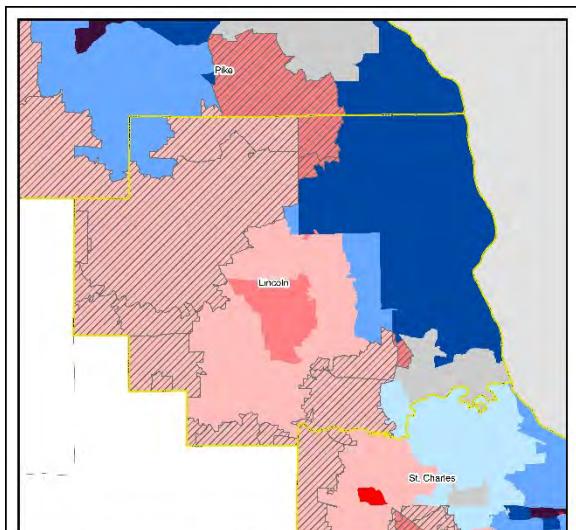
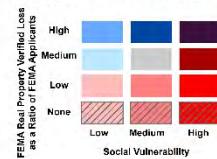




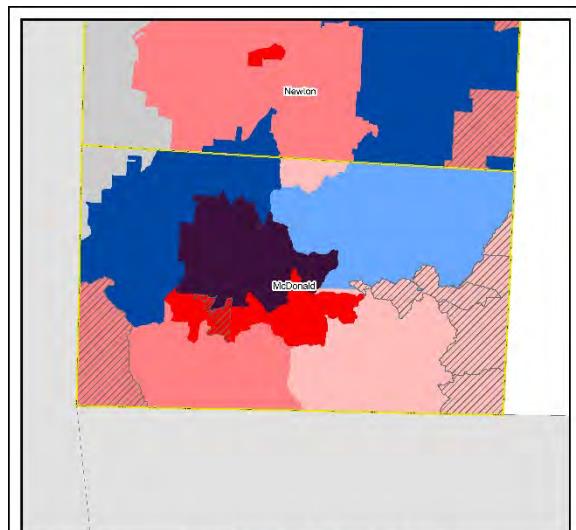
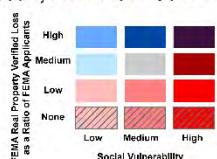
State of Missouri, PDD 4451 - SoVI + Per Applicant Losses



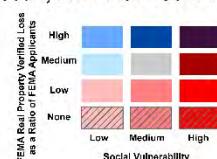
State of Missouri, PDD 4451 - SoVI + Per Applicant Losses

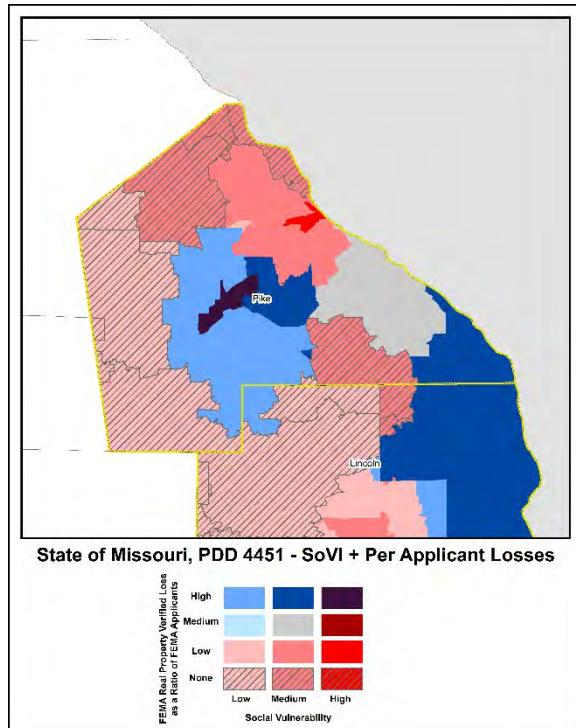
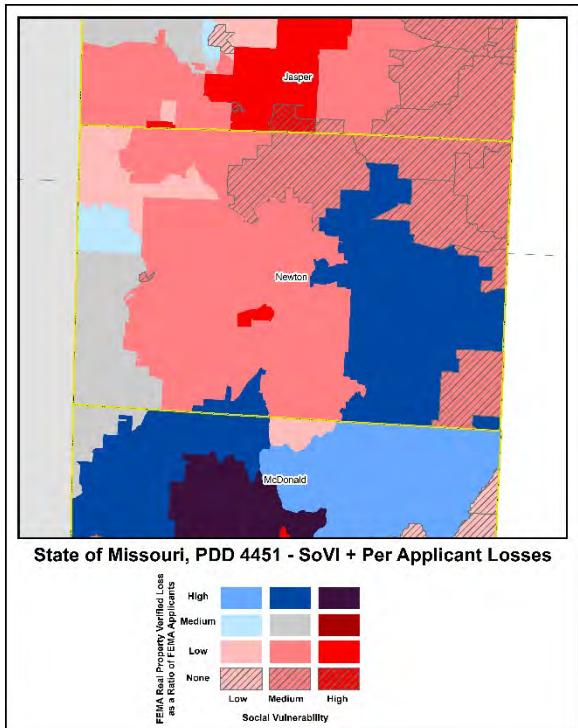
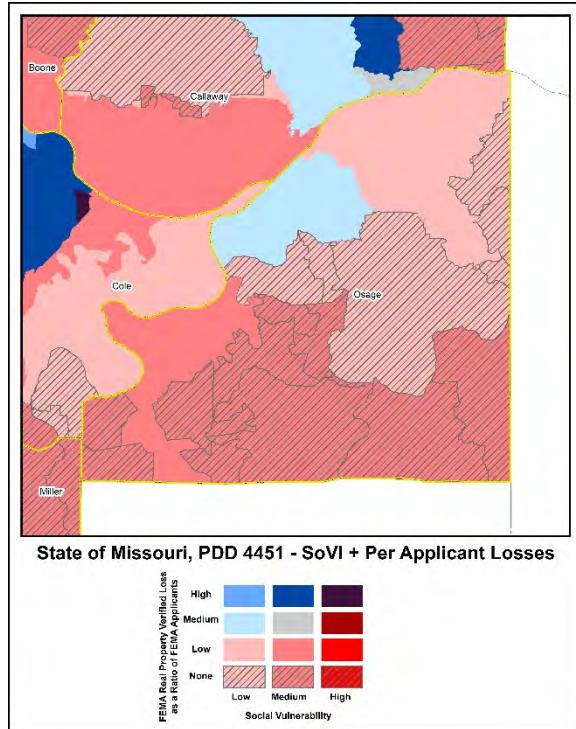
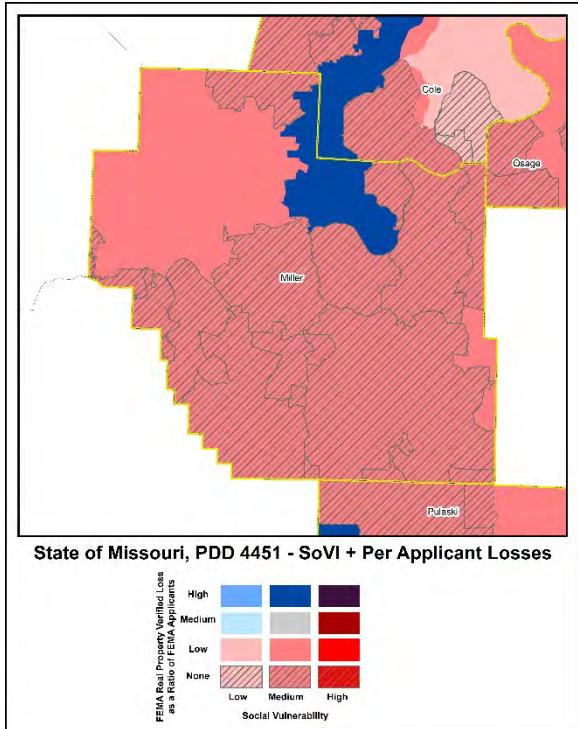


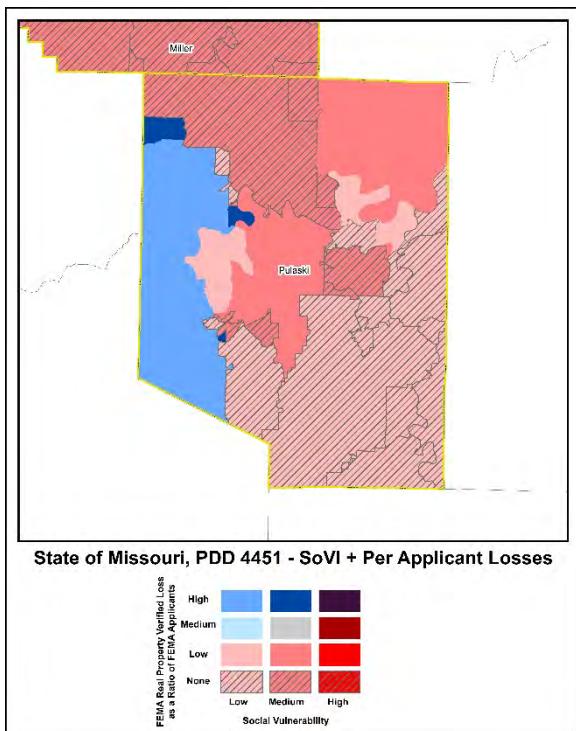
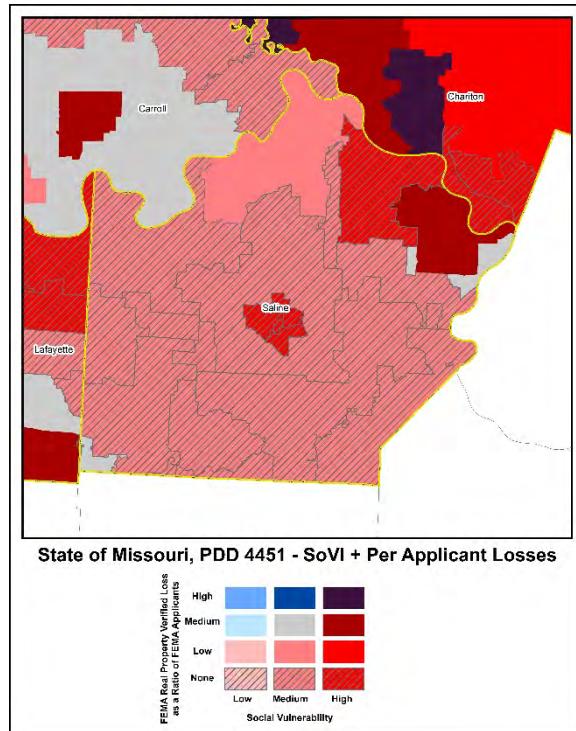
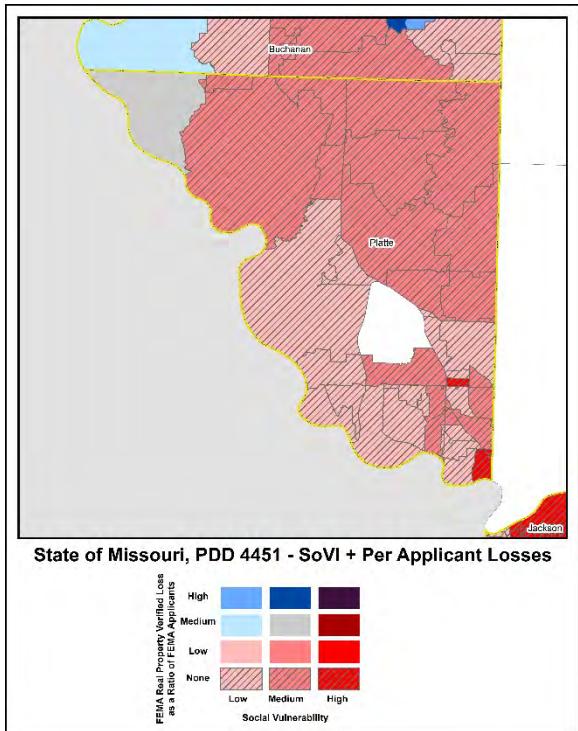
State of Missouri, PDD 4451 - SoVI + Per Applicant Losses



State of Missouri, PDD 4451 - SoVI + Per Applicant Losses







Appendix B: DR-4451, County Demographic Profiles

People	United States	Missouri	Andrew County	Atchison County	Boone County
Population estimates, July 1, 2019	328,239,523	6,137,428	17,712	5,143	180,463
Persons under 5 years, percent, July 1, 2018	6.10%	6.10%	5.70%	4.90%	5.80%
Persons 65 years and over, percent, July 1, 2018	16.00%	16.90%	18.50%	25.40%	12.30%
White alone, percent, July 1, 2018	76.50%	83.00%	96.40%	97.50%	81.30%
Black or African American alone, percent, July 1, 2018	13.40%	11.80%	1.10%	0.50%	9.70%
American Indian and Alaska Native alone, percent, July 1, 2018	1.30%	0.60%	0.40%	0.40%	0.40%
Asian alone, percent, July 1, 2018	5.90%	2.10%	0.60%	0.30%	5.30%
Two or More Races, percent, July 1, 2018	2.70%	2.30%	1.50%	1.20%	3.20%
Hispanic or Latino, percent, July 1, 2018	18.30%	4.30%	2.60%	1.30%	3.50%
Foreign born persons, percent, 2014-2018	13.50%	4.10%	1.00%	0.80%	6.60%
Housing units, July 1, 2018	138,537,078	2,806,371	7,337	2,956	78,940
Owner-occupied housing unit rate, 2014-2018	63.80%	66.80%	78.20%	70.30%	55.30%
Median value of owner-occupied housing units, 2014-2018	\$204,900	\$151,600	\$140,100	\$85,600	\$179,800
Median gross rent, 2014-2018	\$1,023	\$809	\$757	\$542	\$849
Building permits, 2018	1,328,827	16,875	1	1	557
Households, 2014-2018	119,730,128	2,396,271	6,807	2,505	69,957
Persons per household, 2014-2018	2.63	2.47	2.53	2.06	2.39
Language other than English spoken at home, Percent 5 years+, 2014-2018	21.50%	6.10%	2.30%	1.10%	8.10%
High school graduate or higher, percent of persons age 25 years+, 2014-2018	87.70%	89.60%	92.00%	90.60%	94.20%
Bachelor's degree or higher, percent of persons age 25 years+, 2014-2018	31.50%	28.60%	23.80%	22.50%	46.00%
With a disability, under age 65 years, percent, 2014-2018	8.60%	10.40%	8.90%	12.20%	8.10%
Persons without health insurance, under age 65 years, percent	10.00%	11.20%	9.40%	12.00%	10.10%
Per Capita health care and social assistance receipts/revenue, 2017 (\$1,000)	6,216	6,532	Suppressed	3,291	11,268
In civilian labor force, total, percent of population age 16 years+, 2014-2018	62.90%	62.60%	62.60%	62.70%	67.40%

Median household income (in 2015 dollars), 2014-2018	\$60,293	\$53,560	\$55,683	\$48,385	\$54,043
Per capita income in past 12 months (in 2015 dollars), 2014-2018	\$32,621	\$29,537	\$28,027	\$29,009	\$29,365
Persons in poverty, percent	11.80%	13.20%	8.20%	11.80%	16.80%
Persons	United States	Missouri	Buchanan County	Callaway County	Carroll County
Population estimates, July 1, 2019	328,239,523	6,137,428	87,364	44,743	8,679
Persons under 5 years, percent, July 1, 2018	6.10%	6.10%	6.30%	5.50%	5.80%
Persons 65 years and over, percent, July 1, 2018	16.00%	16.90%	16.10%	16.30%	21.80%
White alone, percent, July 1, 2018	76.50%	83.00%	88.50%	91.80%	96.10%
Black or African American alone, percent, July 1, 2018	13.40%	11.80%	6.00%	4.50%	1.80%
American Indian and Alaska Native alone, percent, July 1, 2018	1.30%	0.60%	0.70%	0.60%	0.30%
Asian alone, percent, July 1, 2018	5.90%	2.10%	1.60%	0.80%	0.20%
Two or More Races, percent, July 1, 2018	2.70%	2.30%	2.80%	2.30%	1.50%
Hispanic or Latino, percent, July 1, 2018	18.30%	4.30%	6.90%	2.20%	1.60%
Foreign born persons, percent, 2014-2018	13.50%	4.10%	3.90%	1.90%	1.30%
Housing units, July 1, 2018	138,537,078	2,806,371	38,804	18,997	4,650
Owner-occupied housing unit rate, 2014-2018	63.80%	66.80%	63.50%	72.90%	72.30%
Median value of owner-occupied housing units, 2014-2018	\$204,900	\$151,600	\$118,400	\$144,200	\$84,100
Median gross rent, 2014-2018	\$1,023	\$809	\$754	\$703	\$538
Building permits, 2018	1,328,827	16,875	78	69	4
Households, 2014-2018	119,730,128	2,396,271	33,432	16,038	3,552
Persons per household, 2014-2018	2.63	2.47	2.54	2.55	2.46
Language other than English spoken at home, Percent 5 years+, 2014-2018	21.50%	6.10%	6.00%	2.40%	2.90%
High school graduate or higher, percent of persons age 25 years+, 2014-2018	87.70%	89.60%	88.20%	85.90%	86.50%
Bachelor's degree or higher, percent of persons age 25 years+, 2014-2018	31.50%	28.60%	20.70%	22.20%	17.00%
With a disability, under age 65 years, percent, 2014-2018	8.60%	10.40%	12.40%	10.30%	11.10%

Persons without health insurance, under age 65 years, percent	10.00%	11.20%	11.50%	10.60%	13.20%
Per Capita health care and social assistance receipts/revenue, 2017 (\$1,000)	6,216	6,532	9,753	2,868	2,865
In civilian labor force, total, percent of population age 16 years+, 2014-2018	62.90%	62.60%	62.40%	57.70%	57.40%
Median household income (in 2015 dollars), 2014-2018	\$60,293	\$53,560	\$50,457	\$55,376	\$42,149
Per capita income in past 12 months (in 2015 dollars), 2014-2018	\$32,621	\$29,537	\$25,419	\$25,069	\$24,597
Persons in poverty, percent	11.80%	13.20%	15.60%	11.70%	12.30%

People	United States	Missouri	Chariton County	Greene County	Jackson County
Population estimates, July 1, 2019	328,239,523	6,137,428	7,426	293,086	703,011
Persons under 5 years, percent, July 1, 2018	6.10%	6.10%	6.00%	6.00%	6.60%
Persons 65 years and over, percent, July 1, 2018	16.00%	16.90%	23.60%	16.50%	14.90%
White alone, percent, July 1, 2018	76.50%	83.00%	95.60%	90.50%	70.10%
Black or African American alone, percent, July 1, 2018	13.40%	11.80%	2.40%	3.40%	23.80%
American Indian and Alaska Native alone, percent, July 1, 2018	1.30%	0.60%	0.40%	0.80%	0.60%
Asian alone, percent, July 1, 2018	5.90%	2.10%	0.30%	2.30%	1.90%
Two or More Races, percent, July 1, 2018	2.70%	2.30%	1.30%	3.00%	3.20%
Hispanic or Latino, percent, July 1, 2018	18.30%	4.30%	1.00%	3.90%	9.10%
Foreign born persons, percent, 2014-2018	13.50%	4.10%	0.40%	3.00%	5.80%
Housing units, July 1, 2018	138,537,078	2,806,371	4,151	134,568	326,019
Owner-occupied housing unit rate, 2014-2018	63.80%	66.80%	81.00%	57.40%	58.50%
Median value of owner-occupied housing units, 2014-2018	\$204,900	\$151,600	\$91,600	\$141,200	\$139,000
Median gross rent, 2014-2018	\$1,023	\$809	\$515	\$754	\$881
Building permits, 2018	1,328,827	16,875	2	1,271	3,564
Households, 2014-2018	119,730,128	2,396,271	2,779	122,026	282,653
Persons per household, 2014-2018	2.63	2.47	2.63	2.27	2.41

Language other than English spoken at home, Percent 5 years+, 2014-2018	21.50%	6.10%	0.60%	4.80%	9.30%
High school graduate or higher, percent of persons age 25 years+, 2014-2018	87.70%	89.60%	90.00%	91.60%	90.30%
Bachelor's degree or higher, percent of persons age 25 years+, 2014-2018	31.50%	28.60%	18.40%	30.20%	30.90%
With a disability, under age 65 years, percent, 2014-2018	8.60%	10.40%	10.30%	11.00%	9.60%
Persons without health insurance, under age 65 years, percent	10.00%	11.20%	12.00%	11.30%	12.60%
Per Capita health care and social assistance receipts/revenue, 2017 (\$1,000)	6,216	6,532	1,451	10,330	8,776
In civilian labor force, total, percent of population age 16 years+, 2014-2018	62.90%	62.60%	54.10%	61.60%	66.50%
Median household income (in 2015 dollars), 2014-2018	\$60,293	\$53,560	\$46,992	\$44,808	\$52,805
Per capita income in past 12 months (in 2015 dollars), 2014-2018	\$32,621	\$29,537	\$24,470	\$26,378	\$30,237
Persons in poverty, percent	11.80%	13.20%	13.40%	15.50%	13.00%

People	United States	Missouri	Jasper County	Jefferson County	Lafayette County
Population estimates, July 1, 2019	328,239,523	6,137,428	121,328	225,081	32,708
Persons under 5 years, percent, July 1, 2018	6.10%	6.10%	6.90%	5.90%	5.80%
Persons 65 years and over, percent, July 1, 2018	16.00%	16.90%	15.60%	15.00%	18.90%
White alone, percent, July 1, 2018	76.50%	83.00%	90.80%	96.10%	94.30%
Black or African American alone, percent, July 1, 2018	13.40%	11.80%	2.40%	1.20%	2.20%
American Indian and Alaska Native alone, percent, July 1, 2018	1.30%	0.60%	1.80%	0.30%	0.70%
Asian alone, percent, July 1, 2018	5.90%	2.10%	1.30%	0.80%	0.50%
Two or More Races, percent, July 1, 2018	2.70%	2.30%	3.30%	1.60%	2.20%
Hispanic or Latino, percent, July 1, 2018	18.30%	4.30%	8.30%	2.00%	2.90%
Foreign born persons, percent, 2014-2018	13.50%	4.10%	4.10%	1.80%	1.40%
Housing units, July 1, 2018	138,537,078	2,806,371	51,797	91,627	14,826

Owner-occupied housing unit rate, 2014-2018	63.80%	66.80%	64.80%	79.70%	72.50%
Median value of owner-occupied housing units, 2014-2018	\$204,900	\$151,600	\$115,900	\$158,100	\$127,300
Median gross rent, 2014-2018	\$1,023	\$809	\$773	\$848	\$703
Building permits, 2018	1,328,827	16,875	602	677	60
Households, 2014-2018	119,730,128	2,396,271	45,261	84,393	12,959
Persons per household, 2014-2018	2.63	2.47	2.58	2.62	2.46
Language other than English spoken at home, Percent 5 years+, 2014-2018	21.50%	6.10%	6.90%	2.70%	2.70%
High school graduate or higher, percent of persons age 25 years+, 2014-2018	87.70%	89.60%	87.00%	88.80%	90.60%
Bachelor's degree or higher, percent of persons age 25 years+, 2014-2018	31.50%	28.60%	22.90%	20.20%	20.10%
With a disability, under age 65 years, percent, 2014-2018	8.60%	10.40%	9.60%	9.40%	10.80%
Persons without health insurance, under age 65 years, percent	10.00%	11.20%	14.20%	10.00%	10.40%
Per Capita health care and social assistance receipts/revenue, 2017 (\$1,000)	6,216	6,532	5,188	2,127	Suppressed
In civilian labor force, total, percent of population age 16 years+, 2014-2018	62.90%	62.60%	64.80%	66.30%	61.40%
Median household income (in 2015 dollars), 2014-2018	\$60,293	\$53,560	\$46,929	\$63,030	\$54,661
Per capita income in past 12 months (in 2015 dollars), 2014-2018	\$32,621	\$29,537	\$24,086	\$28,844	\$28,056
Persons in poverty, percent	11.80%	13.20%	16.60%	8.70%	11.00%

People	United States	Missouri	Lewis County	Lincoln County	Livingston County
Population estimates, July 1, 2019	328,239,523	6,137,428	9,776	59,013	15,227
Persons under 5 years, percent, July 1, 2018	6.10%	6.10%	5.70%	6.90%	5.60%
Persons 65 years and over, percent, July 1, 2018	16.00%	16.90%	18.50%	13.40%	19.20%
White alone, percent, July 1, 2018	76.50%	83.00%	94.10%	95.20%	93.50%
Black or African American alone, percent, July 1, 2018	13.40%	11.80%	3.20%	2.00%	3.80%

American Indian and Alaska Native alone, percent, July 1, 2018	1.30%	0.60%	0.50%	0.40%	0.50%
Asian alone, percent, July 1, 2018	5.90%	2.10%	0.50%	0.60%	0.70%
Two or More Races, percent, July 1, 2018	2.70%	2.30%	1.70%	1.80%	1.50%
Hispanic or Latino, percent, July 1, 2018	18.30%	4.30%	1.80%	2.60%	1.90%
Foreign born persons, percent, 2014-2018	13.50%	4.10%	0.90%	1.40%	0.70%
Housing units, July 1, 2018	138,537,078	2,806,371	4,544	21,847	6,836
Owner-occupied housing unit rate, 2014-2018	63.80%	66.80%	73.20%	78.30%	68.10%
Median value of owner-occupied housing units, 2014-2018	\$204,900	\$151,600	\$87,000	\$157,500	\$103,500
Median gross rent, 2014-2018	\$1,023	\$809	\$553	\$821	\$654
Building permits, 2018	1,328,827	16,875	1	140	39
Households, 2014-2018	119,730,128	2,396,271	3,766	18,738	5,882
Persons per household, 2014-2018	2.63	2.47	2.45	2.92	2.33
Language other than English spoken at home, Percent 5 years+, 2014-2018	21.50%	6.10%	3.80%	1.80%	1.90%
High school graduate or higher, percent of persons age 25 years+, 2014-2018	87.70%	89.60%	87.00%	88.30%	86.00%
Bachelor's degree or higher, percent of persons age 25 years+, 2014-2018	31.50%	28.60%	14.00%	15.90%	19.30%
With a disability, under age 65 years, percent, 2014-2018	8.60%	10.40%	8.60%	10.50%	8.30%
Persons without health insurance, under age 65 years, percent	10.00%	11.20%	11.90%	10.50%	12.20%
Per Capita health care and social assistance receipts/revenue, 2017 (\$1,000)	6,216	6,532	1,265	Suppressed	4,884
In civilian labor force, total, percent of population age 16 years+, 2014-2018	62.90%	62.60%	59.40%	63.90%	55.60%
Median household income (in 2015 dollars), 2014-2018	\$60,293	\$53,560	\$47,764	\$61,628	\$47,885
Per capita income in past 12 months (in 2015 dollars), 2014-2018	\$32,621	\$29,537	\$22,602	\$25,472	\$23,083
Persons in poverty, percent	11.80%	13.20%	15.40%	10.60%	15.60%

People	United States	Missouri	Osage County	Pike County	Platte County
Population estimates, July 1, 2019	328,239,523	6,137,428	13,615	18,302	104,418
Persons under 5 years, percent, July 1, 2018	6.10%	6.10%	6.10%	6.10%	6.20%
Persons 65 years and over, percent, July 1, 2018	16.00%	16.90%	17.40%	17.40%	14.50%
White alone, percent, July 1, 2018	76.50%	83.00%	98.10%	90.00%	86.00%
Black or African American alone, percent, July 1, 2018	13.40%	11.80%	0.40%	7.90%	7.40%
American Indian and Alaska Native alone, percent, July 1, 2018	1.30%	0.60%	0.40%	0.20%	0.60%
Asian alone, percent, July 1, 2018	5.90%	2.10%	0.20%	0.30%	2.90%
Two or More Races, percent, July 1, 2018	2.70%	2.30%	0.80%	1.60%	2.60%
Hispanic or Latino, percent, July 1, 2018	18.30%	4.30%	1.00%	2.30%	6.20%
Foreign born persons, percent, 2014-2018	13.50%	4.10%	0.10%	1.20%	5.30%
Housing units, July 1, 2018	138,537,078	2,806,371	6,686	7,929	42,366
Owner-occupied housing unit rate, 2014-2018	63.80%	66.80%	83.30%	70.70%	65.80%
Median value of owner-occupied housing units, 2014-2018	\$204,900	\$151,600	\$146,000	\$106,100	\$216,600
Median gross rent, 2014-2018	\$1,023	\$809	\$532	\$664	\$1,001
Building permits, 2018	1,328,827	16,875	5	13	346
Households, 2014-2018	119,730,128	2,396,271	5,113	6,650	38,613
Persons per household, 2014-2018	2.63	2.47	2.61	2.43	2.54
Language other than English spoken at home, Percent 5 years+, 2014-2018	21.50%	6.10%	1.70%	3.50%	7.10%
High school graduate or higher, percent of persons age 25 years+, 2014-2018	87.70%	89.60%	89.90%	84.00%	95.40%
Bachelor's degree or higher, percent of persons age 25 years+, 2014-2018	31.50%	28.60%	18.90%	16.10%	41.80%
With a disability, under age 65 years, percent, 2014-2018	8.60%	10.40%	8.80%	9.20%	8.50%
Persons without health insurance, under age 65 years, percent	10.00%	11.20%	9.90%	11.90%	6.60%
Per Capita health care and social assistance receipts/revenue, 2017 (\$1,000)	6,216	6,532	Suppressed	2,712	3,393
In civilian labor force, total, percent of population age 16 years+, 2014-2018	62.90%	62.60%	66.30%	52.80%	70.20%

Median household income (in 2015 dollars), 2014-2018	\$60,293	\$53,560	\$58,476	\$45,753	\$76,912
Per capita income in past 12 months (in 2015 dollars), 2014-2018	\$32,621	\$29,537	\$26,037	\$22,302	\$39,427
Persons in poverty, percent	11.80%	13.20%	9.20%	15.90%	5.80%

People	United States	Missouri	Pulaski County	Saline County
Population estimates, July 1, 2019	328,239,523	6,137,428	52,607	22,761
Persons under 5 years, percent, July 1, 2018	6.10%	6.10%	6.60%	5.70%
Persons 65 years and over, percent, July 1, 2018	16.00%	16.90%	9.00%	18.30%
White alone, percent, July 1, 2018	76.50%	83.00%	77.90%	89.00%
Black or African American alone, percent, July 1, 2018	13.40%	11.80%	12.50%	5.40%
American Indian and Alaska Native alone, percent, July 1, 2018	1.30%	0.60%	1.20%	0.90%
Asian alone, percent, July 1, 2018	5.90%	2.10%	3.10%	0.90%
Two or More Races, percent, July 1, 2018	2.70%	2.30%	4.60%	2.60%
Hispanic or Latino, percent, July 1, 2018	18.30%	4.30%	11.30%	10.40%
Foreign born persons, percent, 2014-2018	13.50%	4.10%	5.10%	6.20%
Housing units, July 1, 2018	138,537,078	2,806,371	19,165	10,189
Owner-occupied housing unit rate, 2014-2018	63.80%	66.80%	48.70%	68.90%
Median value of owner-occupied housing units, 2014-2018	\$204,900	\$151,600	\$151,200	\$102,000
Median gross rent, 2014-2018	\$1,023	\$809	\$976	\$626
Building permits, 2018	1,328,827	16,875	49	3
Households, 2014-2018	119,730,128	2,396,271	15,026	8,562
Persons per household, 2014-2018	2.63	2.47	2.88	2.54
Language other than English spoken at home, Percent 5 years+, 2014-2018	21.50%	6.10%	10.30%	9.80%
High school graduate or higher, percent of persons age 25 years+, 2014-2018	87.70%	89.60%	91.40%	84.10%
Bachelor's degree or higher, percent of persons age 25 years+, 2014-2018	31.50%	28.60%	25.90%	18.00%

With a disability, under age 65 years, percent, 2014-2018	8.60%	10.40%	16.70%	12.30%
Persons without health insurance, under age 65 years, percent	10.00%	11.20%	11.40%	12.80%
Per Capita health care and social assistance receipts/revenue, 2017 (\$1,000)	6,216	6,532	3,013	4,866
In civilian labor force, total, percent of population age 16 years+, 2014-2018	62.90%	62.60%	42.40%	59.50%
Median household income (in 2015 dollars), 2014-2018	\$60,293	\$53,560	\$51,665	\$43,201
Per capita income in past 12 months (in 2015 dollars), 2014-2018	\$32,621	\$29,537	\$22,018	\$22,802
Persons in poverty, percent	11.80%	13.20%	15.20%	14.80%

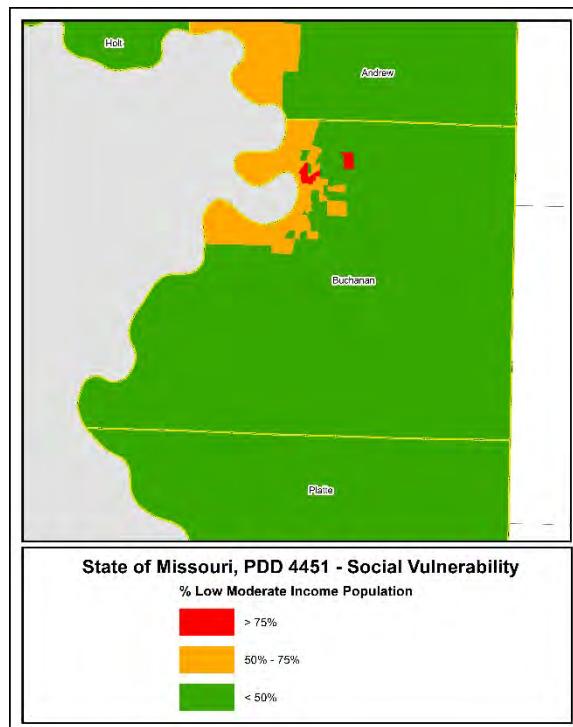
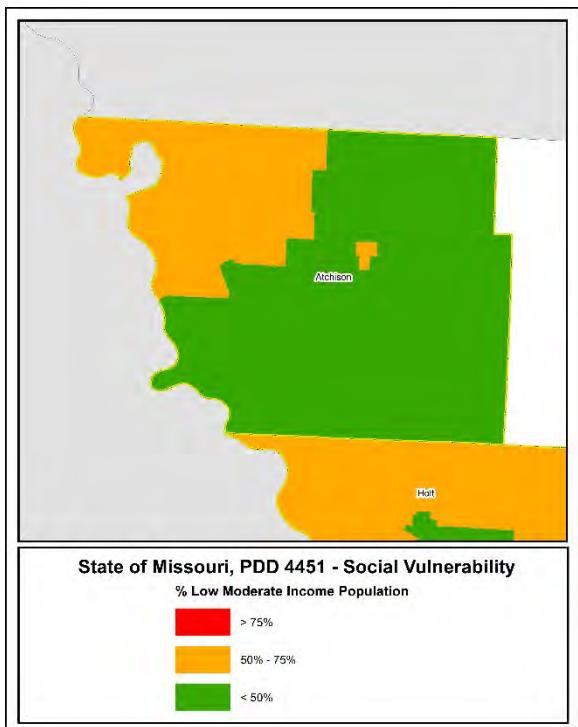
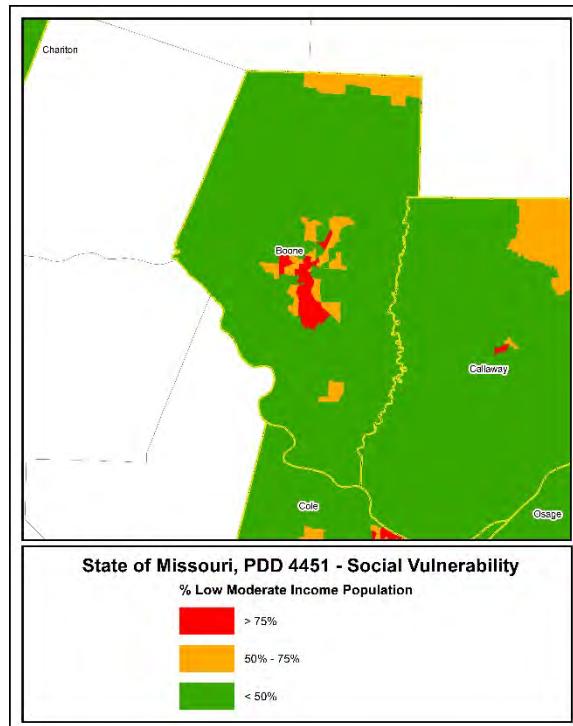
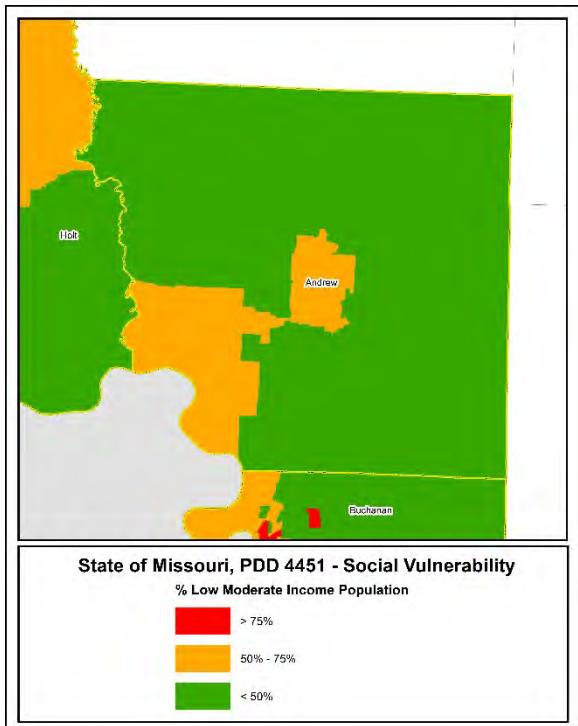
Appendix C: DR-4451 County Low-Moderate Income Limits

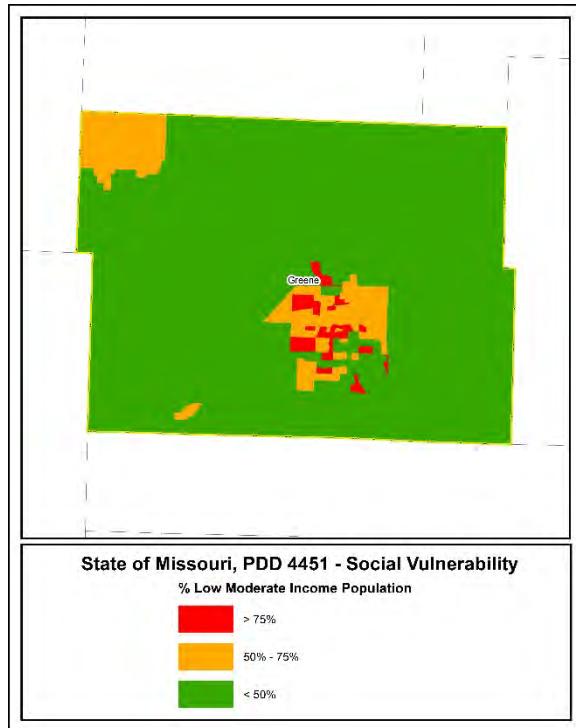
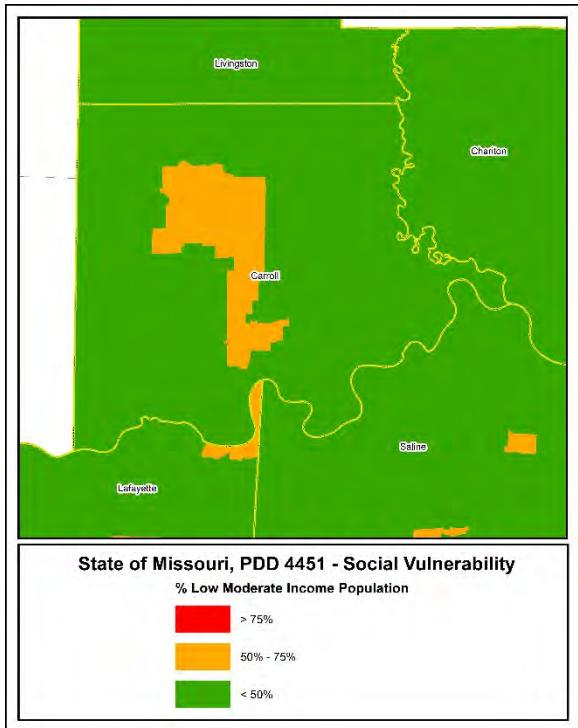
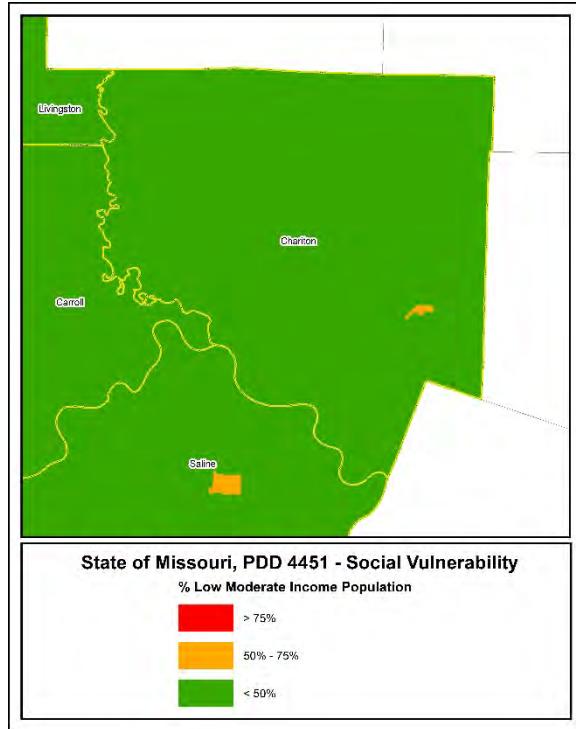
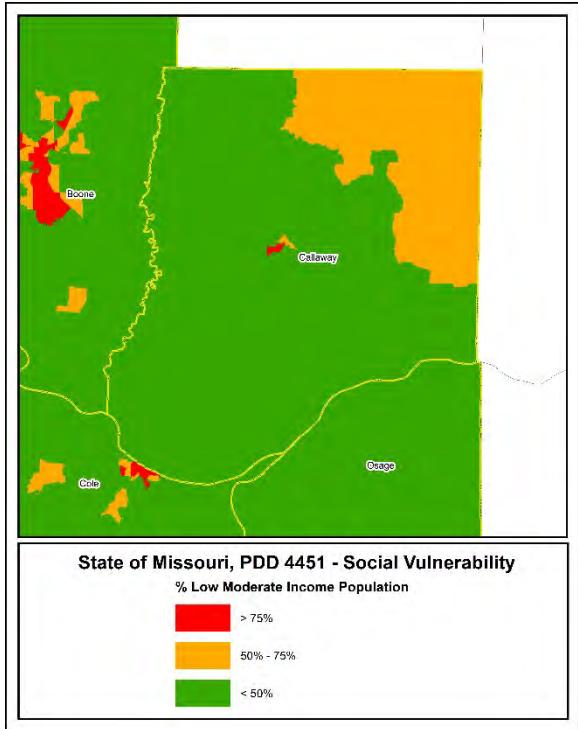
IA Declared Counties	1 Person	2 Person	3 Person	4 Person	5 Person	6 Person	7 Person	8 Person	
Cole									
LMI30	\$15,900	\$18,200	\$21,330	\$25,750	\$30,170	\$34,590	\$39,010	\$43,430	\$15,900
LMI50	\$26,500	\$30,250	\$34,050	\$37,800	\$40,850	\$43,850	\$46,900	\$49,900	\$26,500
LMI80	\$42,350	\$48,400	\$54,450	\$60,500	\$65,350	\$70,200	\$75,050	\$79,900	\$42,350
Holt									
LMI30	\$12,490	\$16,910	\$21,330	\$25,750	\$30,170	\$33,700	\$36,050	\$38,350	\$12,490
LMI50	\$20,350	\$23,250	\$26,150	\$29,050	\$31,400	\$33,700	\$36,050	\$38,350	\$20,350
LMI80	\$32,550	\$37,200	\$41,850	\$46,500	\$50,250	\$53,950	\$57,700	\$61,400	\$32,550
St. Charles									
LMI30	\$17,100	\$19,550	\$22,000	\$25,750	\$30,170	\$34,590	\$39,010	\$43,430	\$17,100
LMI50	\$28,500	\$32,550	\$36,600	\$40,650	\$43,950	\$47,200	\$50,450	\$53,700	\$28,500
LMI80	\$45,550	\$52,050	\$58,550	\$65,050	\$70,300	\$75,500	\$80,700	\$85,900	\$45,550
Andrew									
LMI30	\$13,550	\$16,910	\$21,330	\$25,750	\$30,170	\$34,590	\$39,010	\$42,450	\$13,550
LMI50	\$22,550	\$25,750	\$28,950	\$32,150	\$34,750	\$37,300	\$39,900	\$42,450	\$22,550
LMI80	\$36,050	\$41,200	\$46,350	\$51,450	\$55,600	\$59,700	\$63,800	\$67,950	\$36,050
Atchison									
LMI30	\$13,000	\$16,910	\$21,330	\$25,750	\$30,170	\$34,590	\$38,400	\$40,900	\$13,000
LMI50	\$21,700	\$24,800	\$27,900	\$30,950	\$33,450	\$35,950	\$38,400	\$40,900	\$21,700
LMI80	\$34,650	\$39,600	\$44,550	\$49,500	\$53,500	\$57,450	\$61,400	\$65,350	\$34,650
Boone									
LMI30	\$16,700	\$19,050	\$21,450	\$25,750	\$30,170	\$34,590	\$39,010	\$43,430	\$16,700
LMI50	\$27,800	\$31,800	\$35,750	\$39,700	\$42,900	\$46,100	\$49,250	\$52,450	\$27,800
LMI80	\$44,450	\$50,800	\$57,150	\$63,500	\$68,600	\$73,700	\$78,750	\$83,850	\$44,450
Buchanan									
LMI30	\$13,550	\$16,910	\$21,330	\$25,750	\$30,170	\$34,590	\$39,010	\$42,450	\$13,550
LMI50	\$22,550	\$25,750	\$28,950	\$32,150	\$34,750	\$37,300	\$39,900	\$42,450	\$22,550
LMI80	\$36,050	\$41,200	\$46,350	\$51,450	\$55,600	\$59,700	\$63,800	\$67,950	\$36,050
Callaway									
LMI30	\$13,700	\$16,910	\$21,330	\$25,750	\$30,170	\$34,590	\$39,010	\$43,050	\$13,700
LMI50	\$22,850	\$26,100	\$29,350	\$32,600	\$35,250	\$37,850	\$40,450	\$43,050	\$22,850
LMI80	\$36,550	\$41,750	\$46,950	\$52,150	\$56,350	\$60,500	\$64,700	\$68,850	\$36,550
Carroll									
LMI30	\$12,500	\$16,910	\$21,330	\$25,750	\$30,170	\$34,500	\$36,850	\$39,250	\$12,500
LMI50	\$20,800	\$23,800	\$26,750	\$29,700	\$32,100	\$34,500	\$36,850	\$39,250	\$20,800
LMI80	\$33,250	\$38,000	\$42,750	\$47,500	\$51,300	\$55,100	\$58,900	\$62,700	\$33,250
Chariton									
LMI30	\$12,490	\$16,910	\$21,330	\$25,750	\$30,170	\$33,900	\$36,250	\$38,550	\$12,490
LMI50	\$20,450	\$23,400	\$26,300	\$29,200	\$31,550	\$33,900	\$36,250	\$38,550	\$20,450

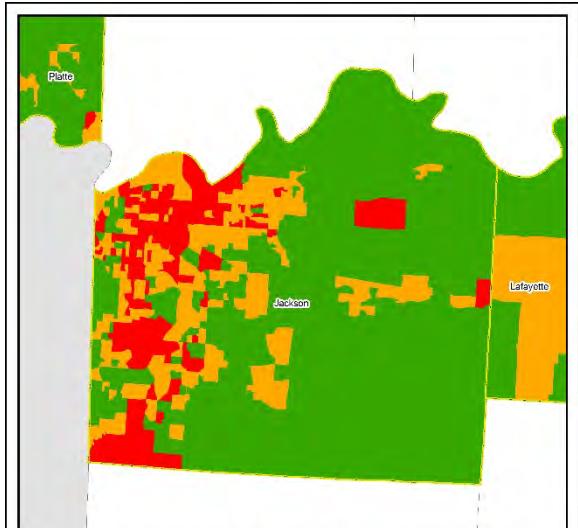
IA		1 Person	2 Person	3 Person	4 Person	5 Person	6 Person	7 Person	8 Person
Declared Counties									
LMI80	\$32,700	\$37,400	\$42,050	\$46,700	\$50,450	\$54,200	\$57,950	\$61,650	\$32,700
Greene									
LMI30	\$13,200	\$16,910	\$21,330	\$25,750	\$30,170	\$34,590	\$39,000	\$41,550	\$13,200
LMI50	\$22,050	\$25,200	\$28,350	\$31,450	\$34,000	\$36,500	\$39,000	\$41,550	\$22,050
LMI80	\$35,250	\$40,250	\$45,300	\$50,300	\$54,350	\$58,350	\$62,400	\$66,400	\$35,250
Jackson									
LMI30	\$17,400	\$19,850	\$22,350	\$25,750	\$30,170	\$34,590	\$39,010	\$43,430	\$17,400
LMI50	\$28,950	\$33,100	\$37,250	\$41,350	\$44,700	\$48,000	\$51,300	\$54,600	\$28,950
LMI80	\$46,350	\$52,950	\$59,550	\$66,150	\$71,450	\$76,750	\$82,050	\$87,350	\$46,350
Jasper									
LMI30	\$12,490	\$16,910	\$21,330	\$25,750	\$30,170	\$33,800	\$36,100	\$38,450	\$12,490
LMI50	\$20,400	\$23,300	\$26,200	\$29,100	\$31,450	\$33,800	\$36,100	\$38,450	\$20,400
LMI80	\$32,600	\$37,250	\$41,900	\$46,550	\$50,300	\$54,000	\$57,750	\$61,450	\$32,600
Jefferson									
LMI30	\$17,100	\$19,550	\$22,000	\$25,750	\$30,170	\$34,590	\$39,010	\$43,430	\$17,100
LMI50	\$28,500	\$32,550	\$36,600	\$40,650	\$43,950	\$47,200	\$50,450	\$53,700	\$28,500
LMI80	\$45,550	\$52,050	\$58,550	\$65,050	\$70,300	\$75,500	\$80,700	\$85,900	\$45,550
Lafayette									
LMI30	\$17,400	\$19,850	\$22,350	\$25,750	\$30,170	\$34,590	\$39,010	\$43,430	\$17,400
LMI50	\$28,950	\$33,100	\$37,250	\$41,350	\$44,700	\$48,000	\$51,300	\$54,600	\$28,950
LMI80	\$46,350	\$52,950	\$59,550	\$66,150	\$71,450	\$76,750	\$82,050	\$87,350	\$46,350
Lewis									
LMI30	\$12,490	\$16,910	\$21,330	\$25,750	\$30,170	\$34,350	\$36,750	\$39,100	\$12,490
LMI50	\$20,750	\$23,700	\$26,650	\$29,600	\$32,000	\$34,350	\$36,750	\$39,100	\$20,750
LMI80	\$33,150	\$37,900	\$42,650	\$47,350	\$51,150	\$54,950	\$58,750	\$62,550	\$33,150
Lincoln									
LMI30	\$17,100	\$19,550	\$22,000	\$25,750	\$30,170	\$34,590	\$39,010	\$43,430	\$17,100
LMI50	\$28,500	\$32,550	\$36,600	\$40,650	\$43,950	\$47,200	\$50,450	\$53,700	\$28,500
LMI80	\$45,550	\$52,050	\$58,550	\$65,050	\$70,300	\$75,500	\$80,700	\$85,900	\$45,550
Livingston									
LMI30	\$12,950	\$16,910	\$21,330	\$25,750	\$30,170	\$34,590	\$38,150	\$40,600	\$12,950
LMI50	\$21,550	\$24,600	\$27,700	\$30,750	\$33,250	\$35,700	\$38,150	\$40,600	\$21,550
LMI80	\$34,450	\$39,400	\$44,300	\$49,200	\$53,150	\$57,100	\$61,050	\$64,950	\$34,450
McDonald									
LMI30	\$12,490	\$16,910	\$21,330	\$25,750	\$29,850	\$32,050	\$34,250	\$36,450	\$12,490
LMI50	\$19,350	\$22,100	\$24,850	\$27,600	\$29,850	\$32,050	\$34,250	\$36,450	\$19,350
LMI80	\$30,950	\$35,350	\$39,750	\$44,150	\$47,700	\$51,250	\$54,750	\$58,300	\$30,950
Miller									
LMI30	\$12,490	\$16,910	\$21,330	\$25,750	\$29,850	\$32,050	\$34,250	\$36,450	\$12,490
LMI50	\$19,350	\$22,100	\$24,850	\$27,600	\$29,850	\$32,050	\$34,250	\$36,450	\$19,350
LMI80	\$30,950	\$35,350	\$39,750	\$44,150	\$47,700	\$51,250	\$54,750	\$58,300	\$30,950

IA Declared Counties		1 Person	2 Person	3 Person	4 Person	5 Person	6 Person	7 Person	8 Person
Newton									
LMI30	\$12,490	\$16,910	\$21,330	\$25,750	\$30,170	\$33,800	\$36,100	\$38,450	\$12,490
LMI50	\$20,400	\$23,300	\$26,200	\$29,100	\$31,450	\$33,800	\$36,100	\$38,450	\$20,400
LMI80	\$32,600	\$37,250	\$41,900	\$46,550	\$50,300	\$54,000	\$57,750	\$61,450	\$32,600
Osage									
LMI30	\$15,900	\$18,200	\$21,330	\$25,750	\$30,170	\$34,590	\$39,010	\$43,430	\$15,900
LMI50	\$26,500	\$30,250	\$34,050	\$37,800	\$40,850	\$43,850	\$46,900	\$49,900	\$26,500
LMI80	\$42,350	\$48,400	\$54,450	\$60,500	\$65,350	\$70,200	\$75,050	\$79,900	\$42,350
Pike									
LMI30	\$12,490	\$16,910	\$21,330	\$25,750	\$30,170	\$33,450	\$35,750	\$38,050	\$12,490
LMI50	\$20,200	\$23,050	\$25,950	\$28,800	\$31,150	\$33,450	\$35,750	\$38,050	\$20,200
LMI80	\$32,300	\$36,900	\$41,500	\$46,100	\$49,800	\$53,500	\$57,200	\$60,900	\$32,300
Platte									
LMI30	\$17,400	\$19,850	\$22,350	\$25,750	\$30,170	\$34,590	\$39,010	\$43,430	\$17,400
LMI50	\$28,950	\$33,100	\$37,250	\$41,350	\$44,700	\$48,000	\$51,300	\$54,600	\$28,950
LMI80	\$46,350	\$52,950	\$59,550	\$66,150	\$71,450	\$76,750	\$82,050	\$87,350	\$46,350
Pulaski									
LMI30	\$12,600	\$16,910	\$21,330	\$25,750	\$30,170	\$34,590	\$37,150	\$39,550	\$12,600
LMI50	\$21,000	\$24,000	\$27,000	\$29,950	\$32,350	\$34,750	\$37,150	\$39,550	\$21,000
LMI80	\$33,550	\$38,350	\$43,150	\$47,900	\$51,750	\$55,600	\$59,400	\$63,250	\$33,550
Saline									
LMI30	\$12,490	\$16,910	\$21,330	\$25,750	\$29,850	\$32,050	\$34,250	\$36,450	\$12,490
LMI50	\$19,350	\$22,100	\$24,850	\$27,600	\$29,850	\$32,050	\$34,250	\$36,450	\$19,350
LMI80	\$30,950	\$35,350	\$39,750	\$44,150	\$47,700	\$51,250	\$54,750	\$58,300	\$30,950

Appendix D: DR-4451 County LMI Maps



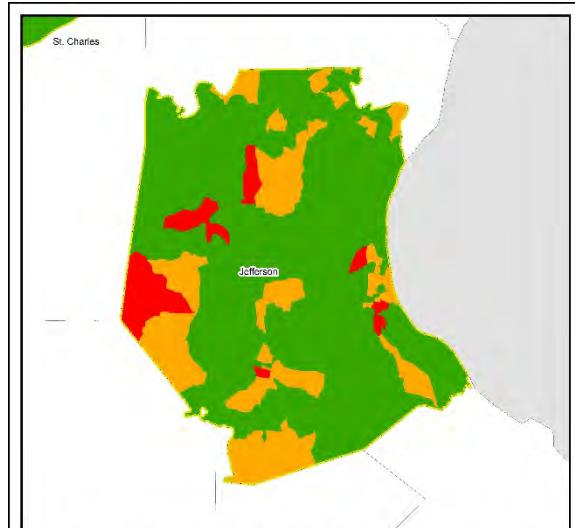




State of Missouri, PDD 4451 - Social Vulnerability

% Low Moderate Income Population

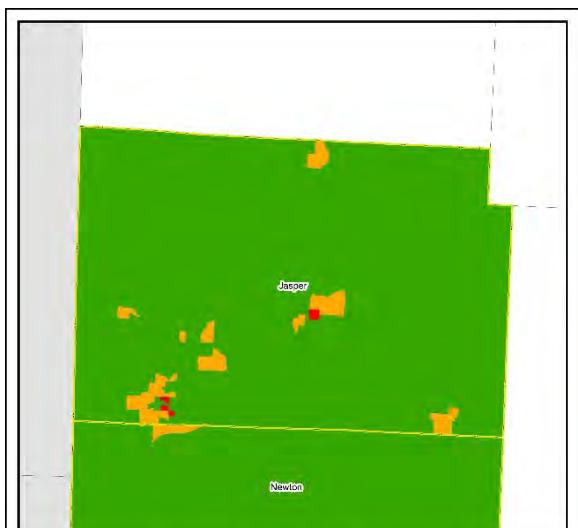
- > 75%
- 50% - 75%
- < 50%



State of Missouri, PDD 4451 - Social Vulnerability

% Low Moderate Income Population

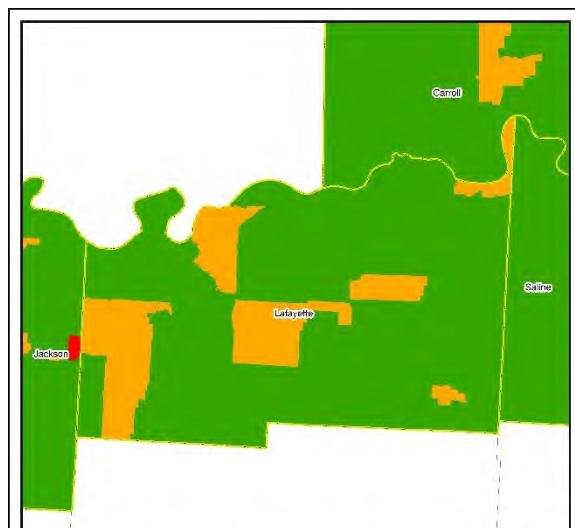
- > 75%
- 50% - 75%
- < 50%



State of Missouri, PDD 4451 - Social Vulnerability

% Low Moderate Income Population

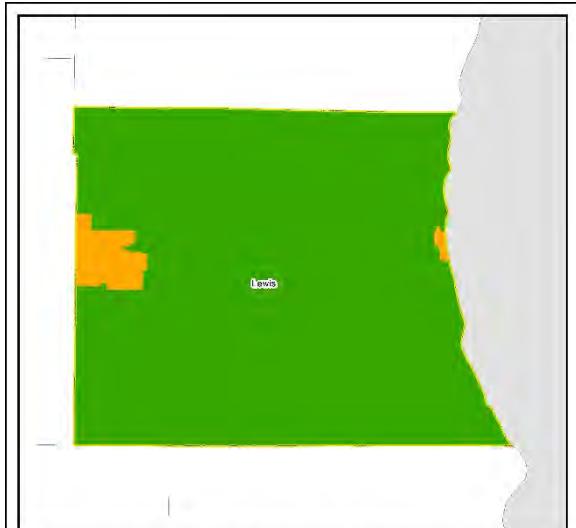
- > 75%
- 50% - 75%
- < 50%



State of Missouri, PDD 4451 - Social Vulnerability

% Low Moderate Income Population

- > 75%
- 50% - 75%
- < 50%



State of Missouri, PDD 4451 - Social Vulnerability

% Low Moderate Income Population

Red: > 75%

Orange: 50% - 75%

Green: < 50%



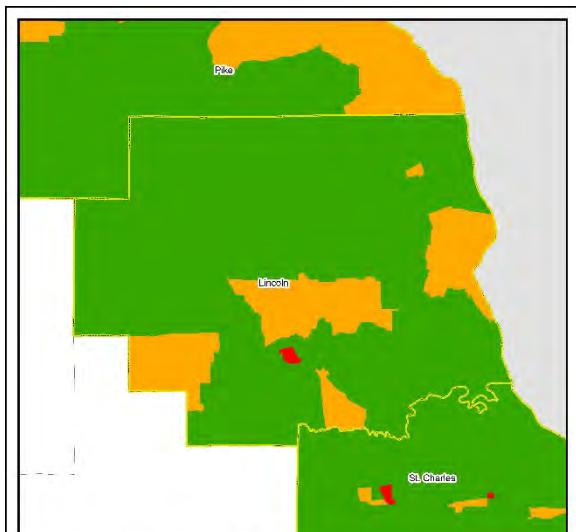
State of Missouri, PDD 4451 - Social Vulnerability

% Low Moderate Income Population

Red: > 75%

Orange: 50% - 75%

Green: < 50%



State of Missouri, PDD 4451 - Social Vulnerability

% Low Moderate Income Population

Red: > 75%

Orange: 50% - 75%

Green: < 50%



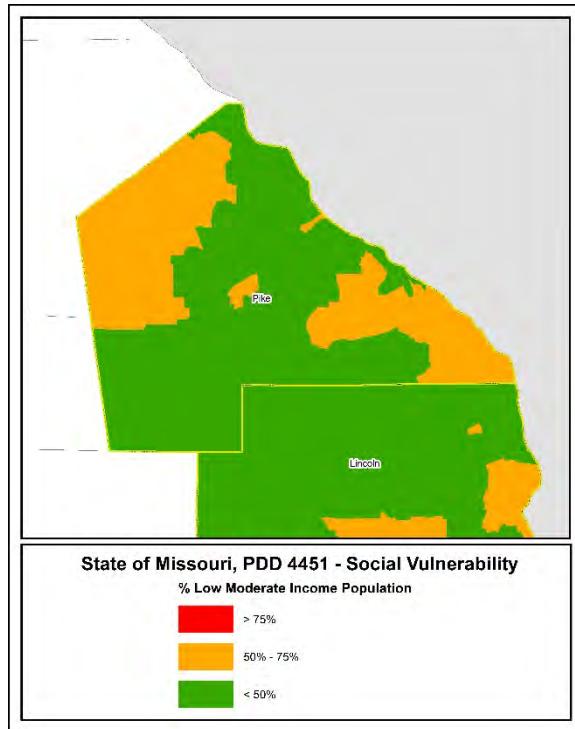
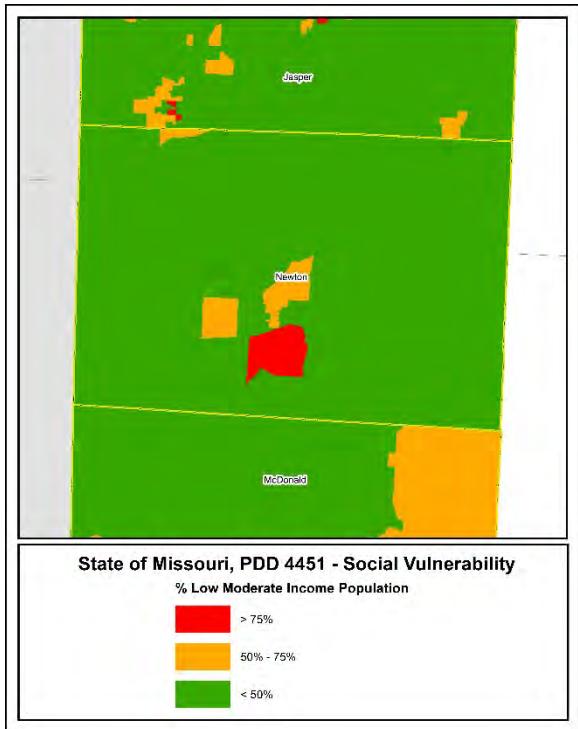
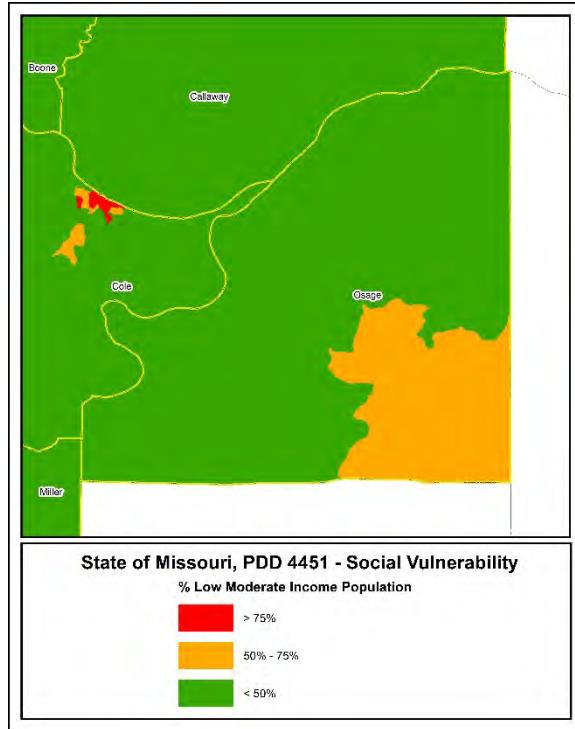
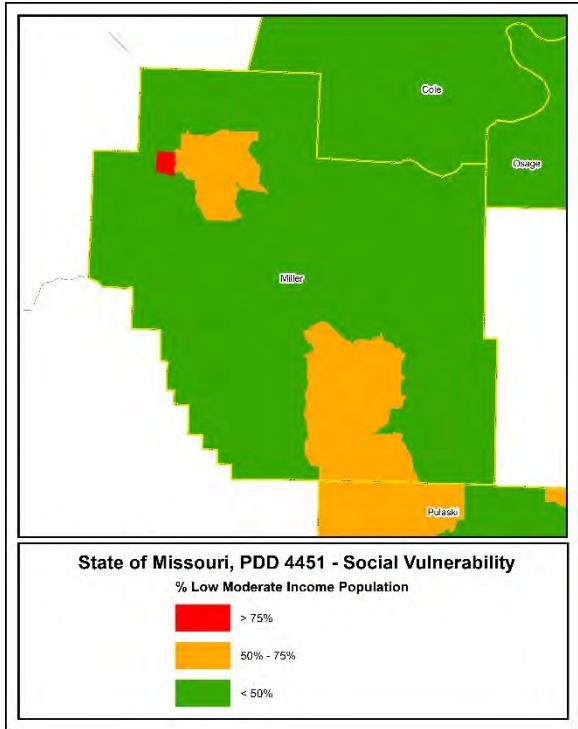
State of Missouri, PDD 4451 - Social Vulnerability

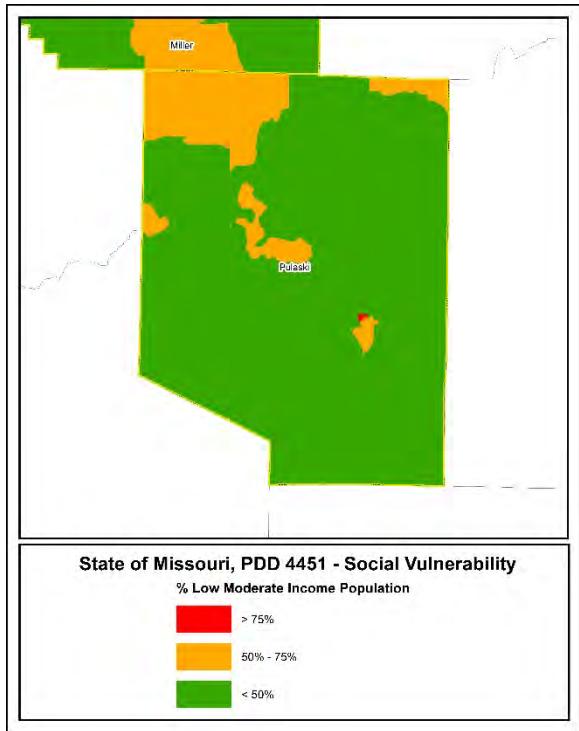
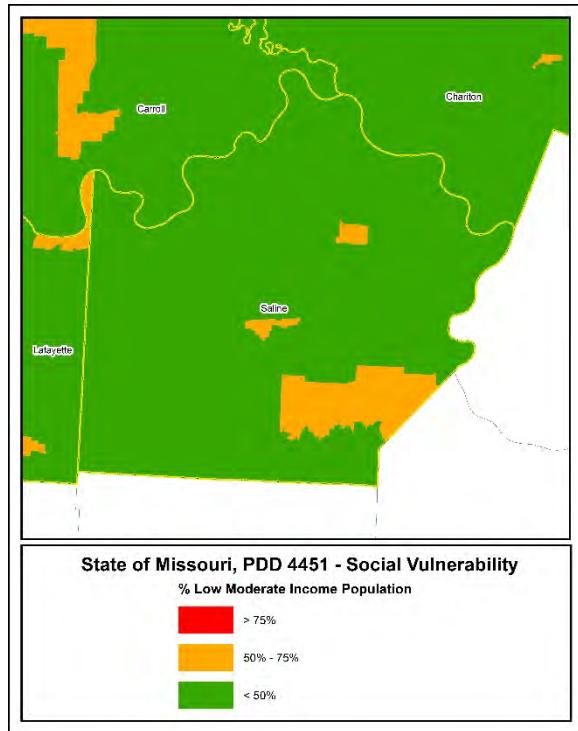
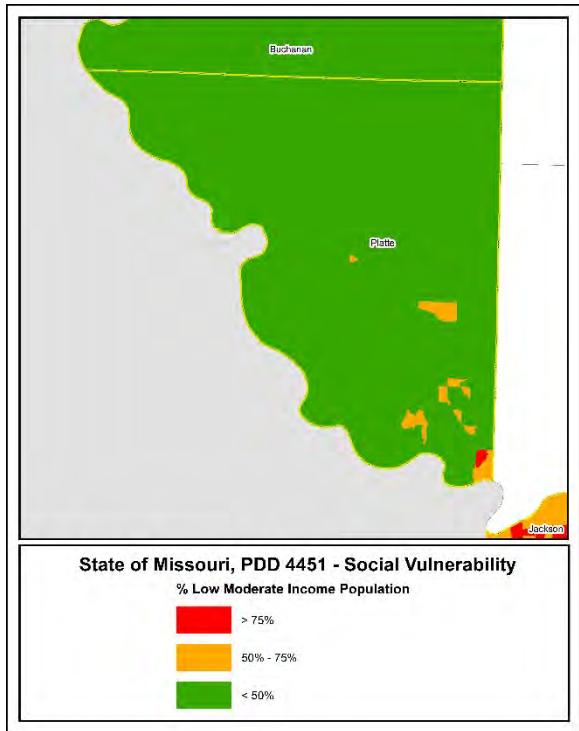
% Low Moderate Income Population

Red: > 75%

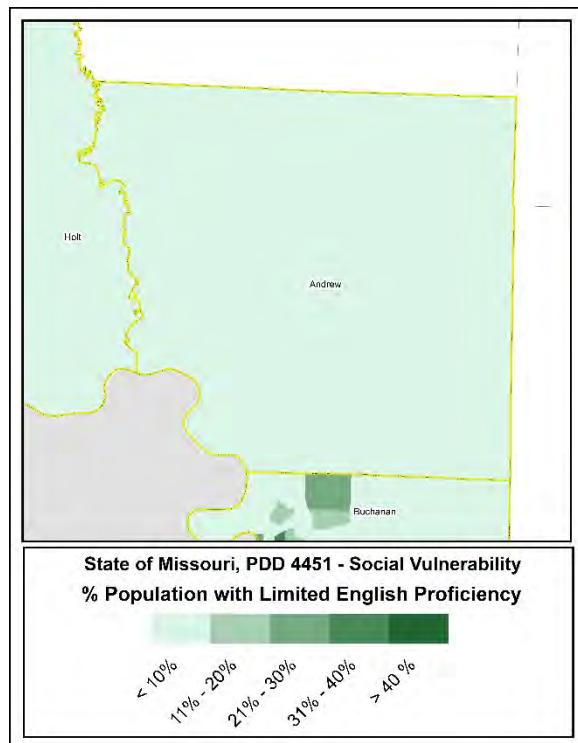
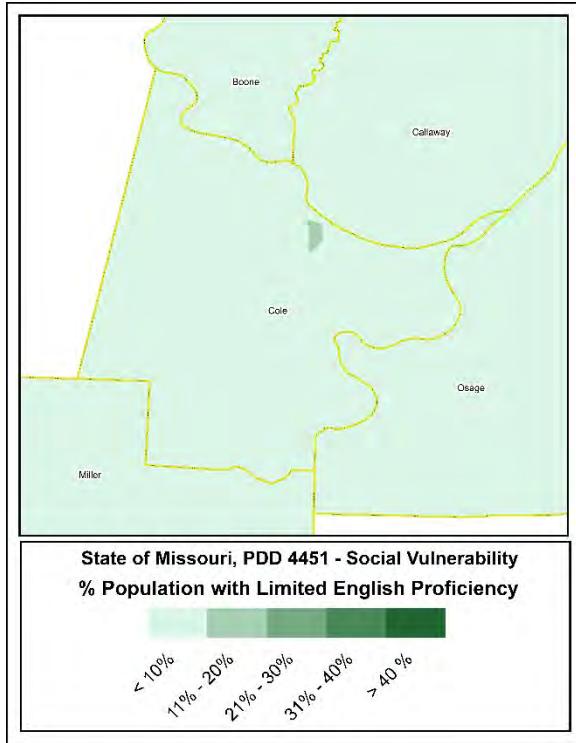
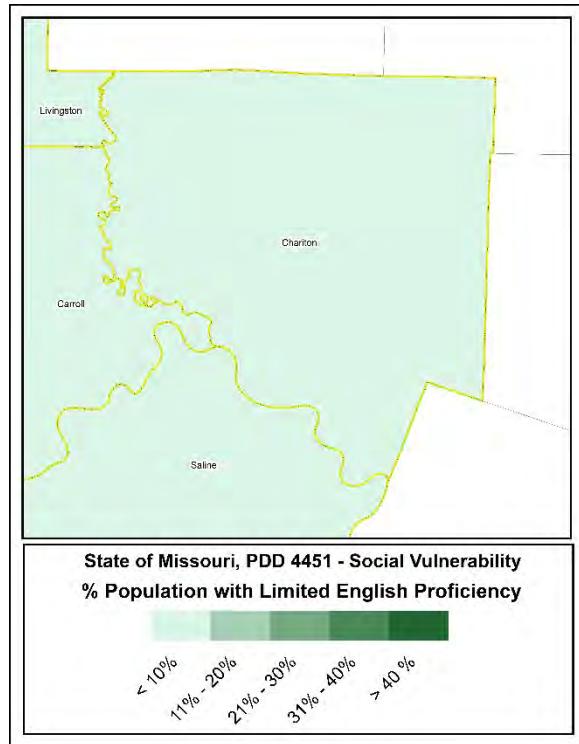
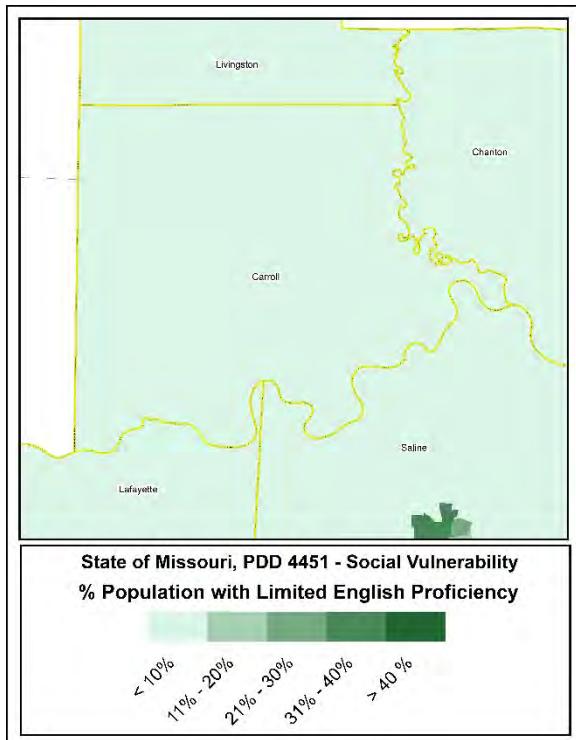
Orange: 50% - 75%

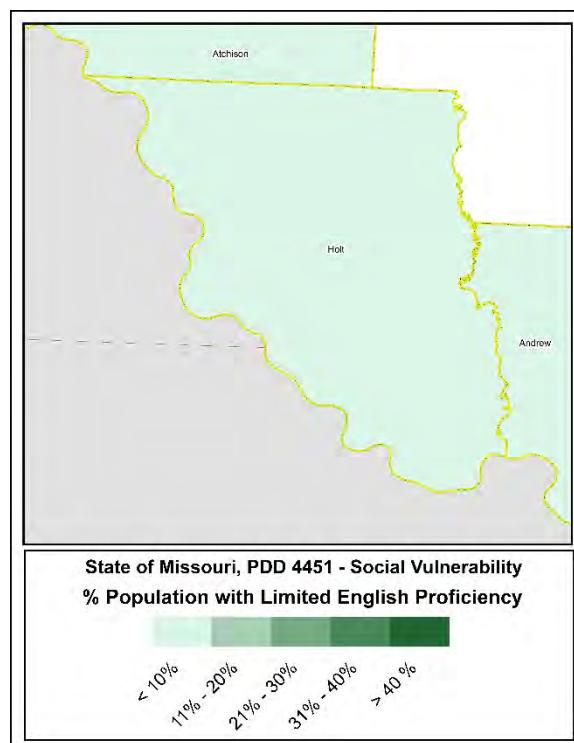
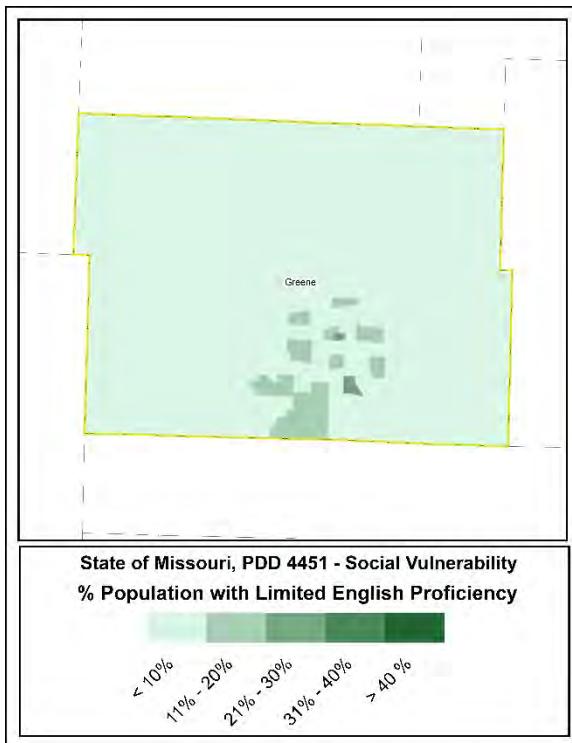
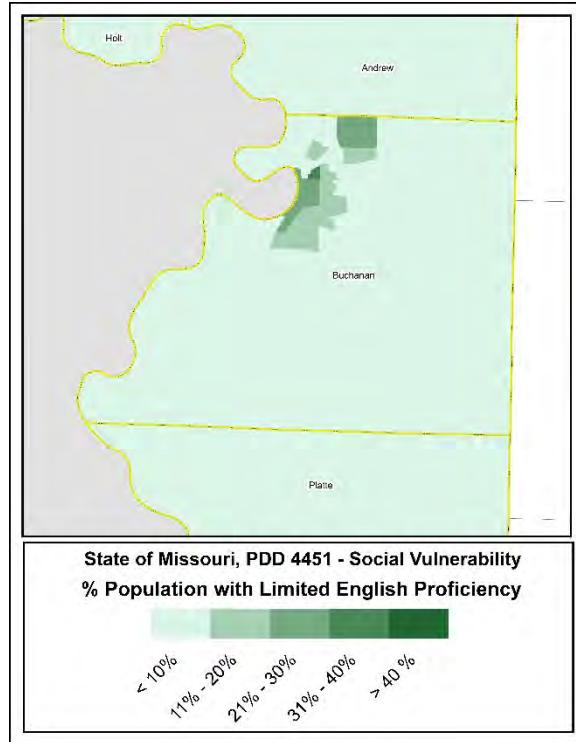
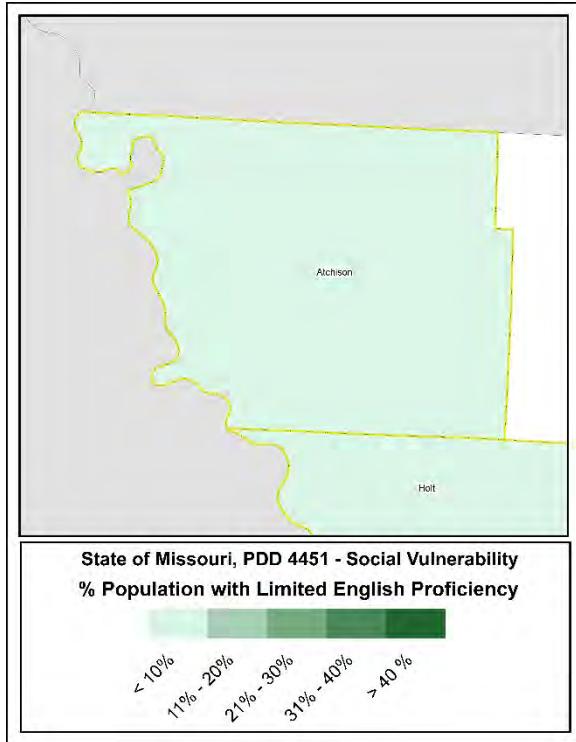
Green: < 50%

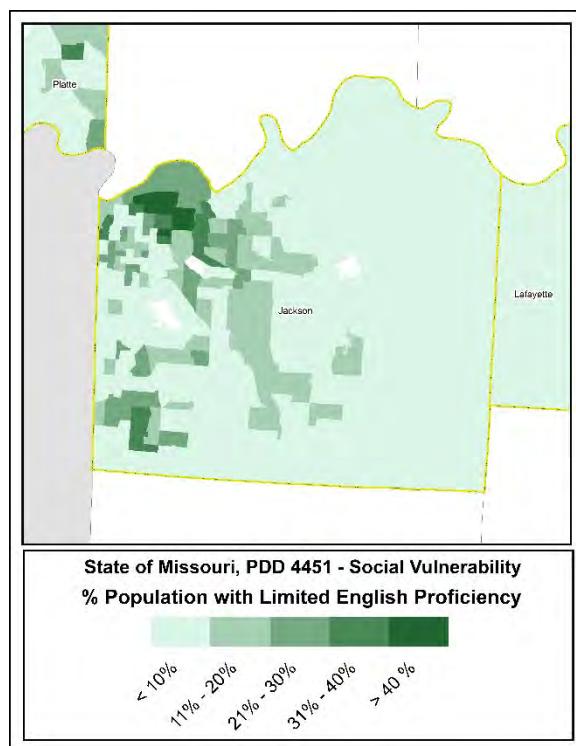
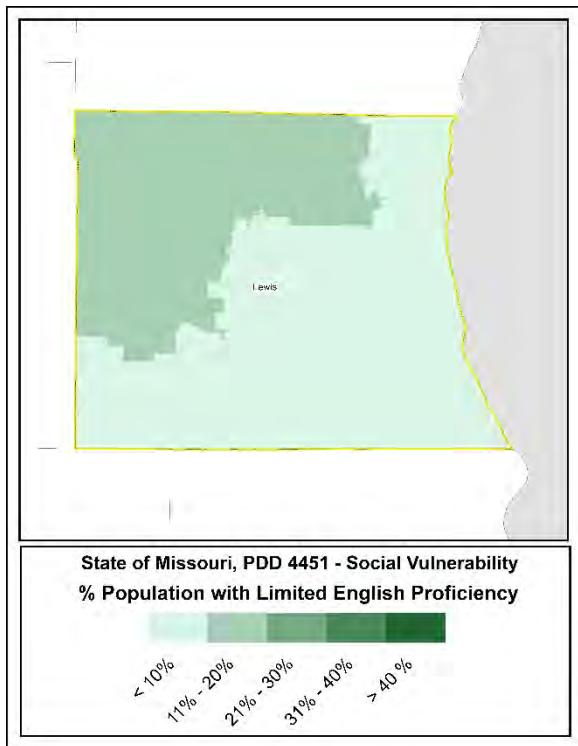
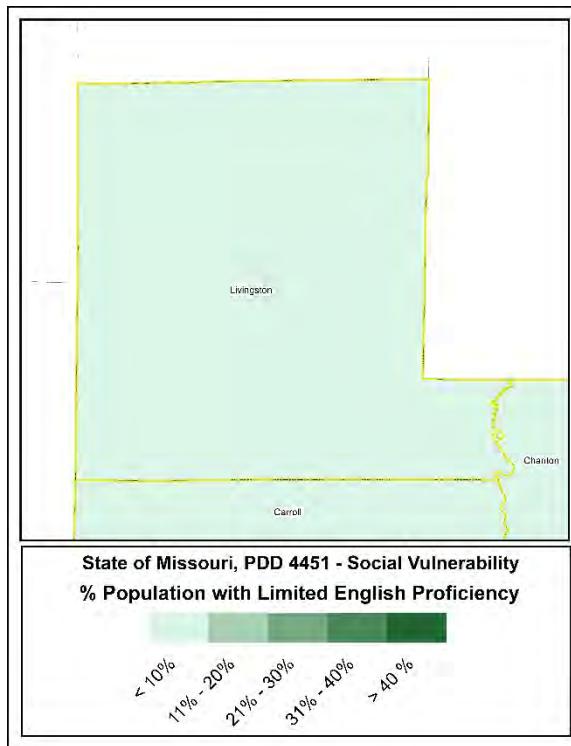
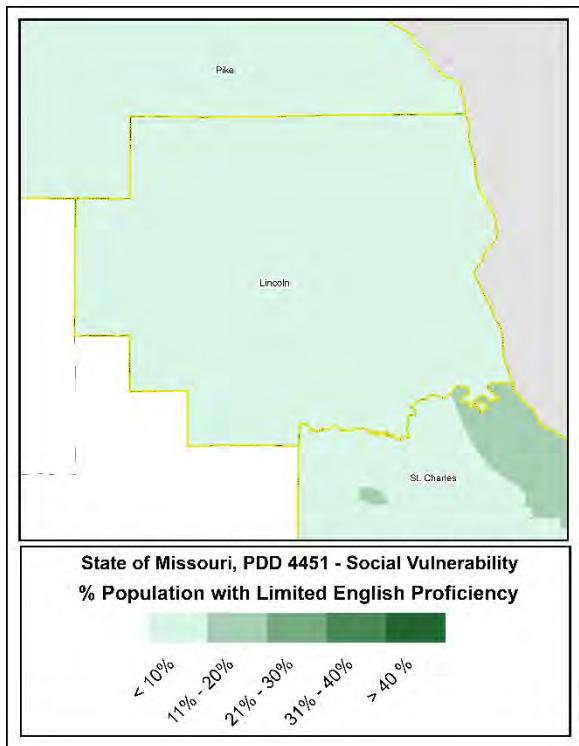


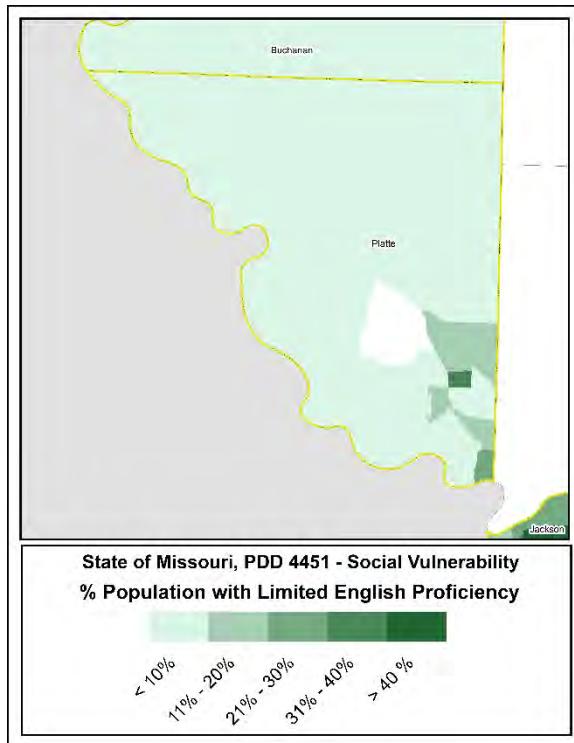
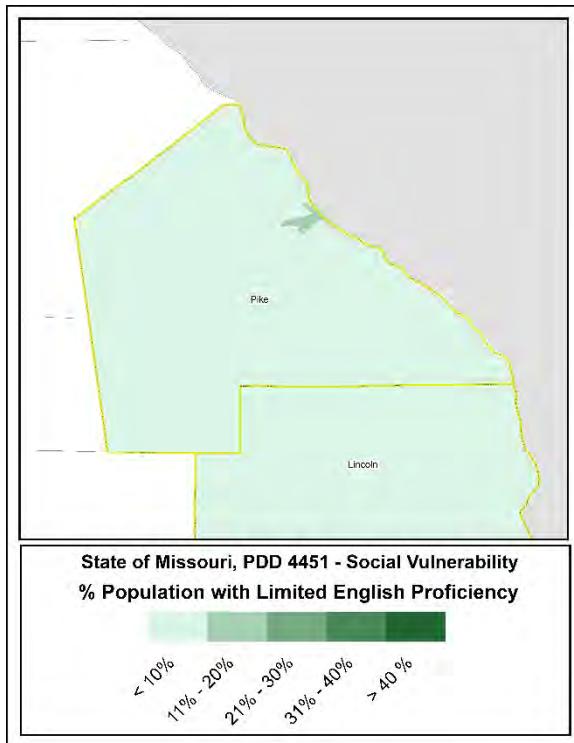
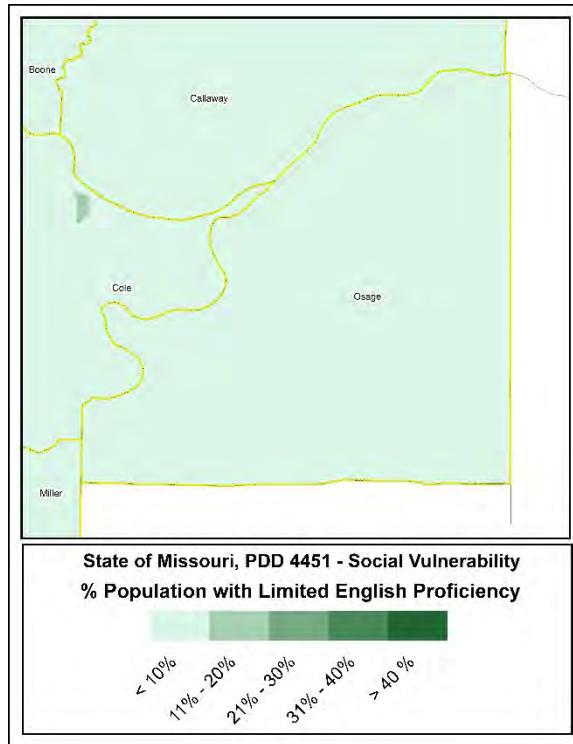
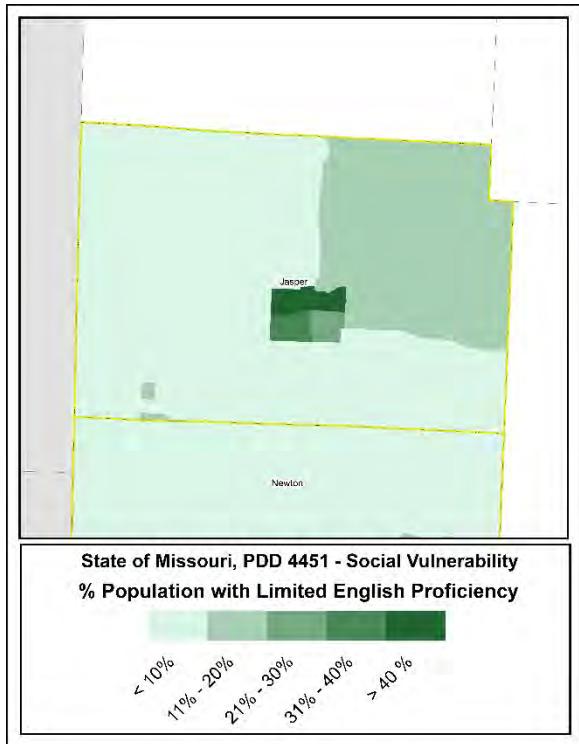


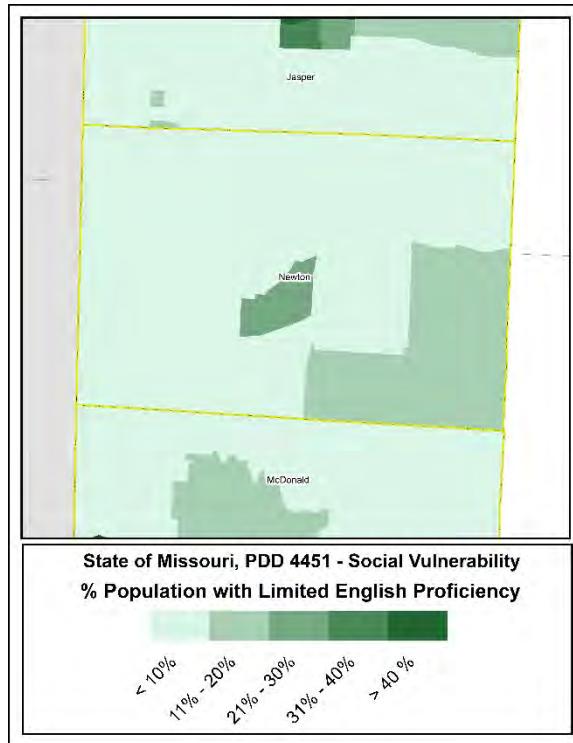
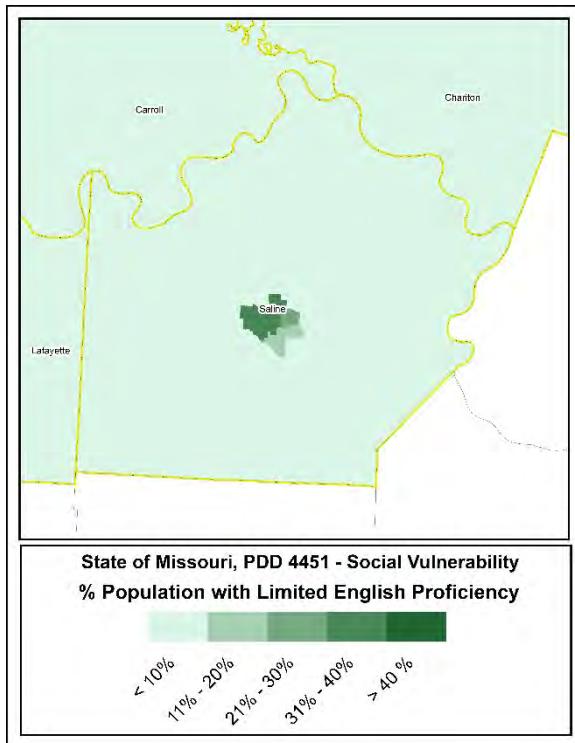
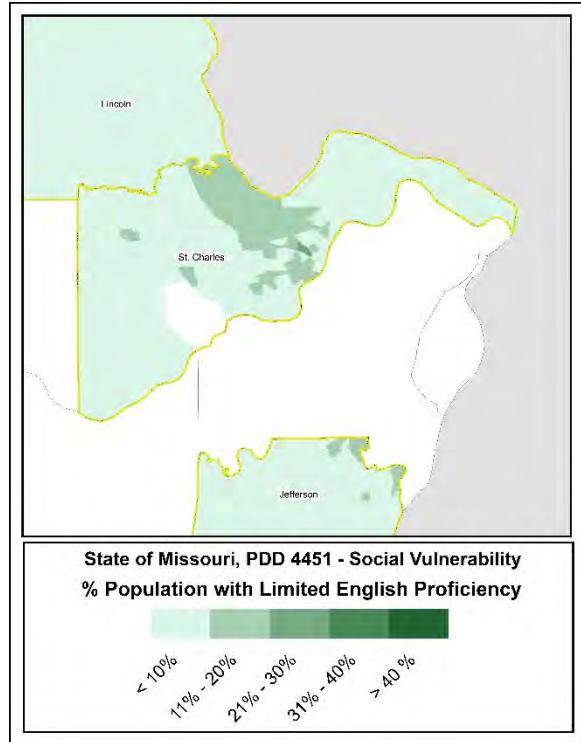
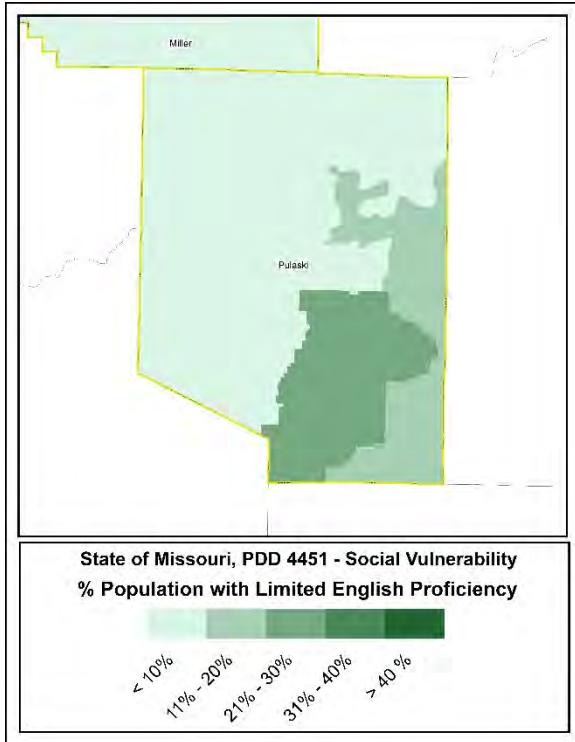
Appendix E: DR-4451 County English Proficiency

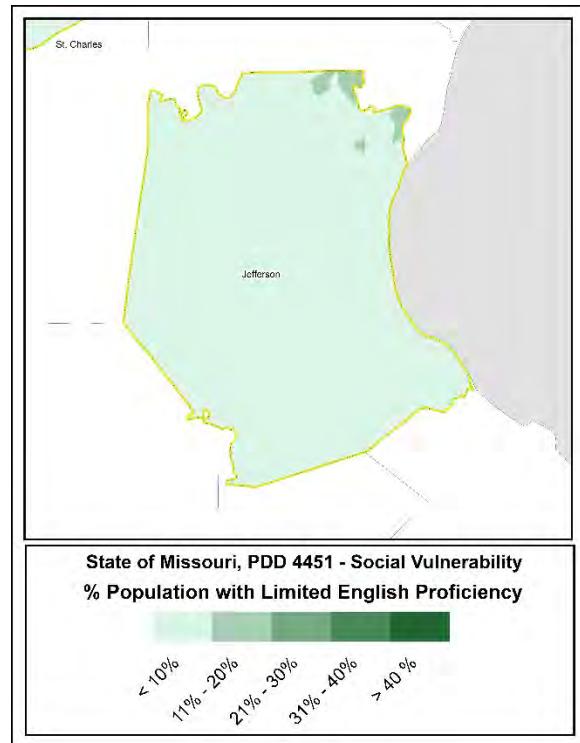
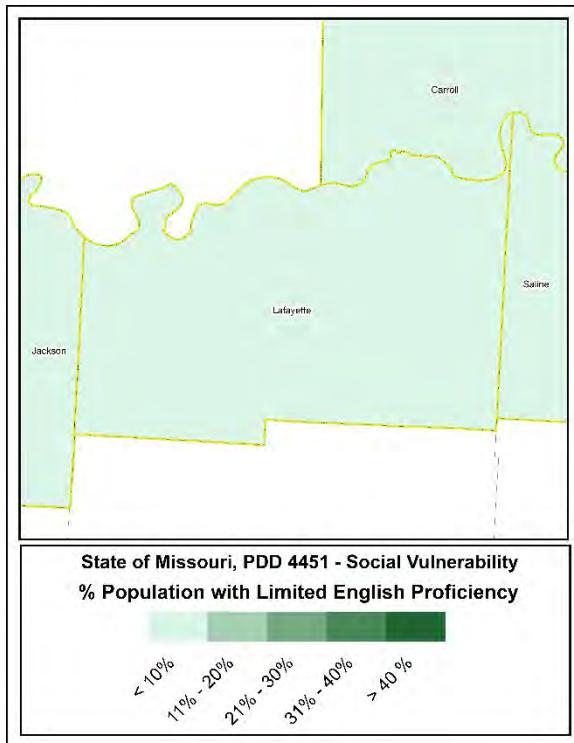
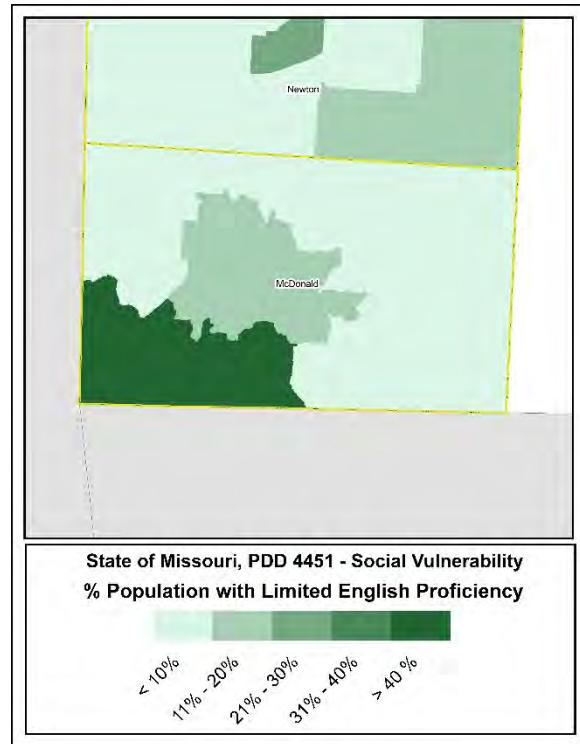
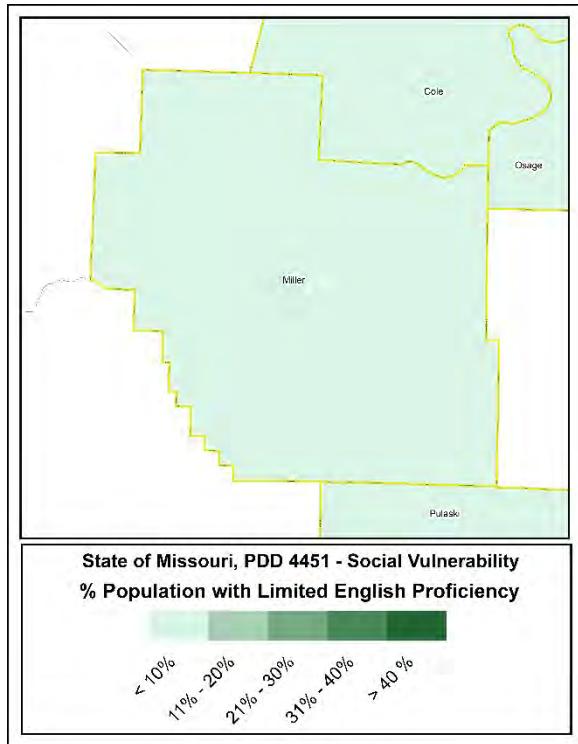




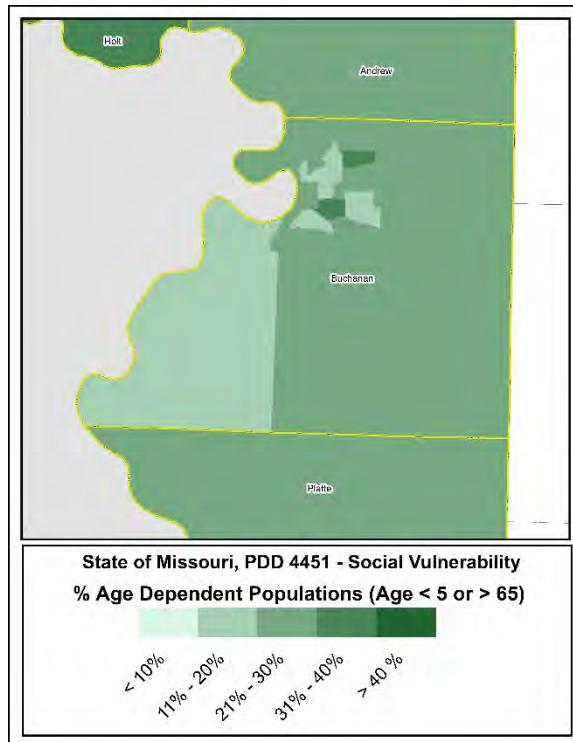
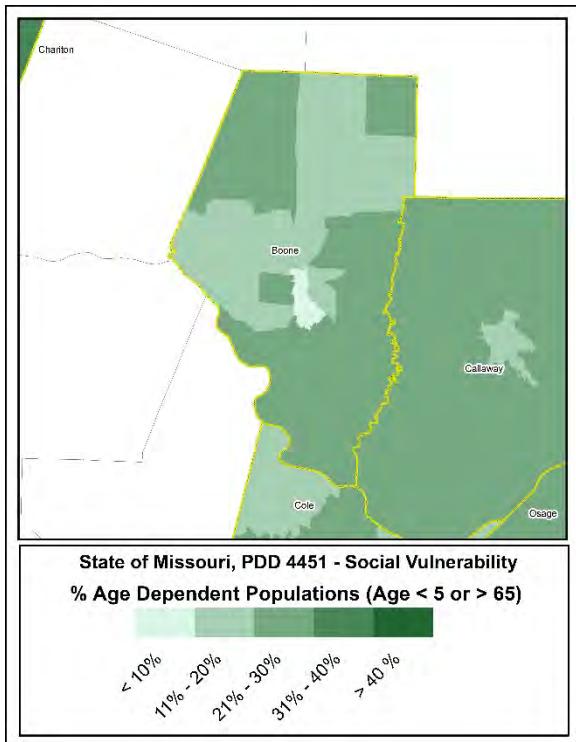
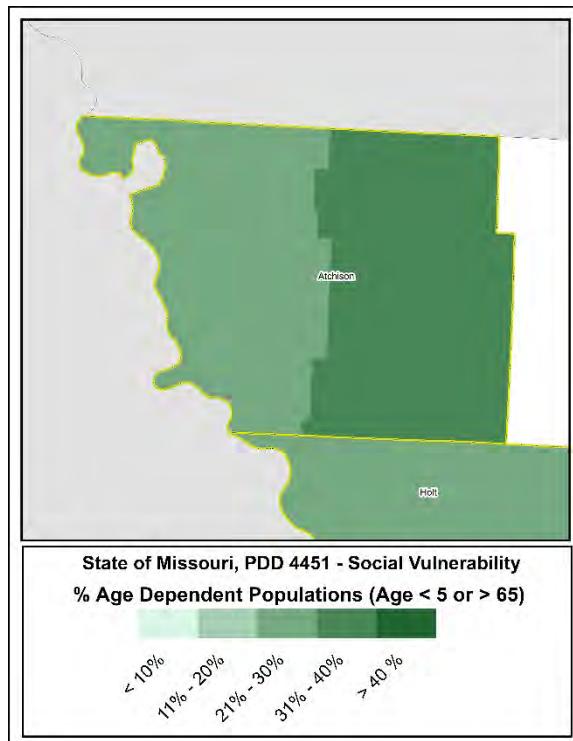
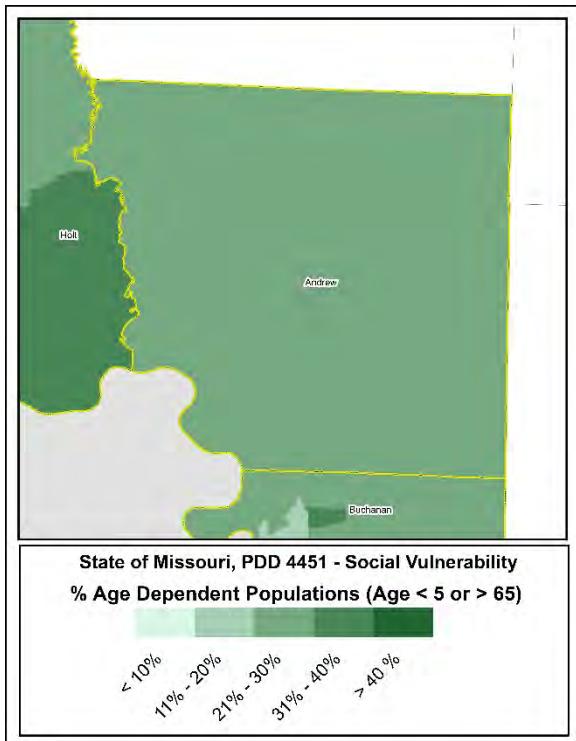


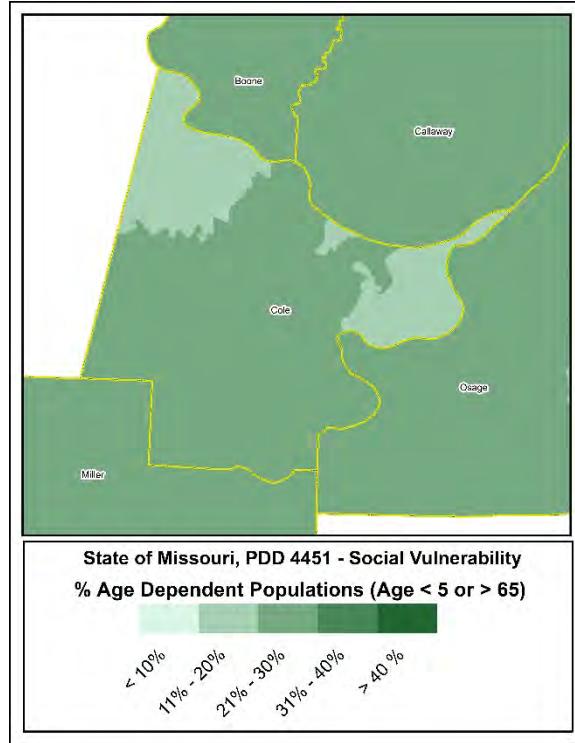
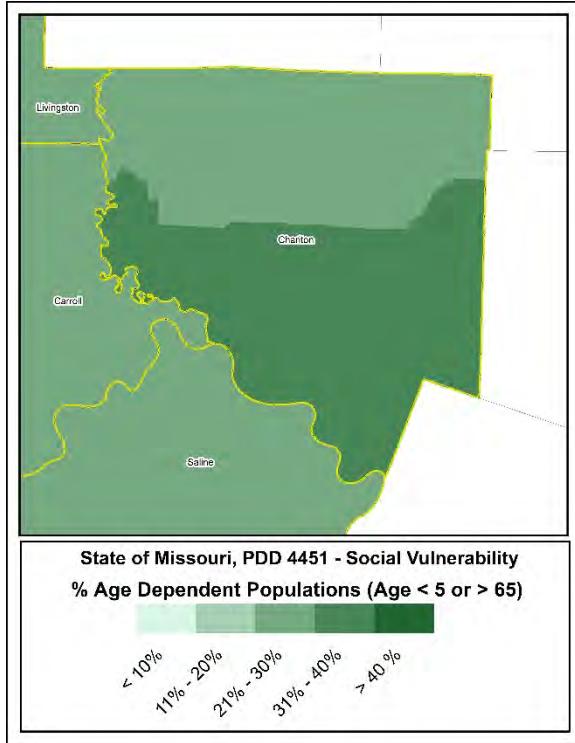
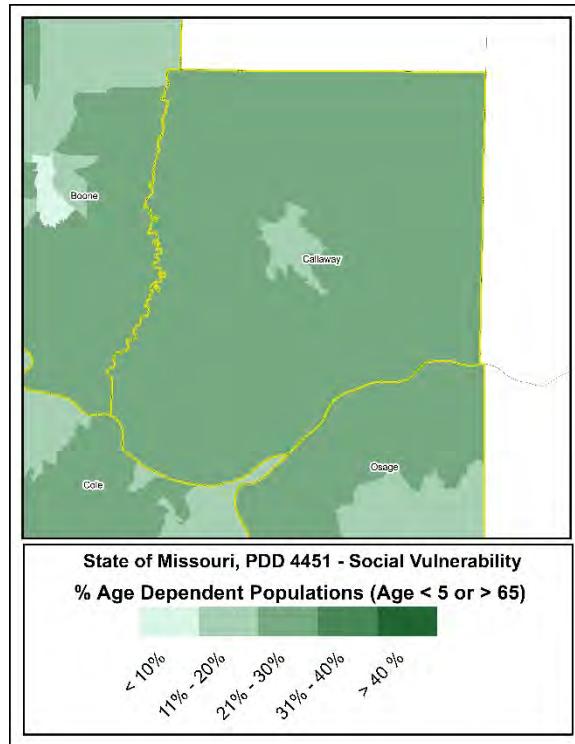
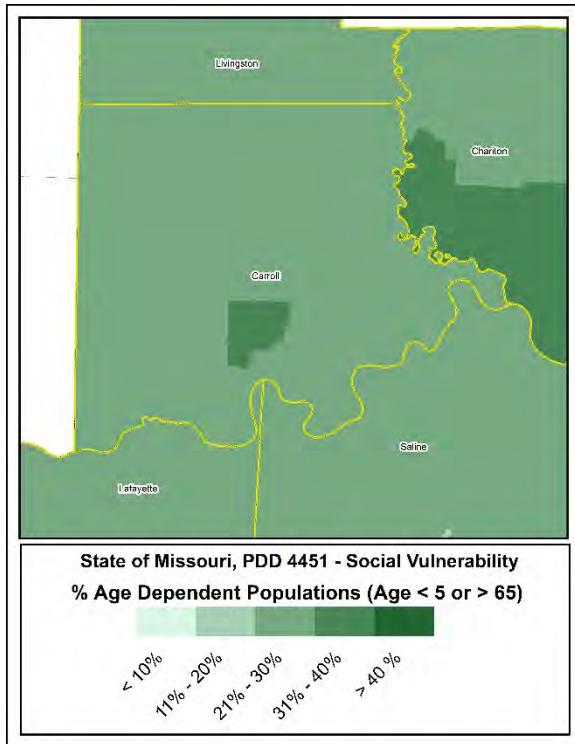






APPENDIX F: DR-4451 County Age Dependent Populations

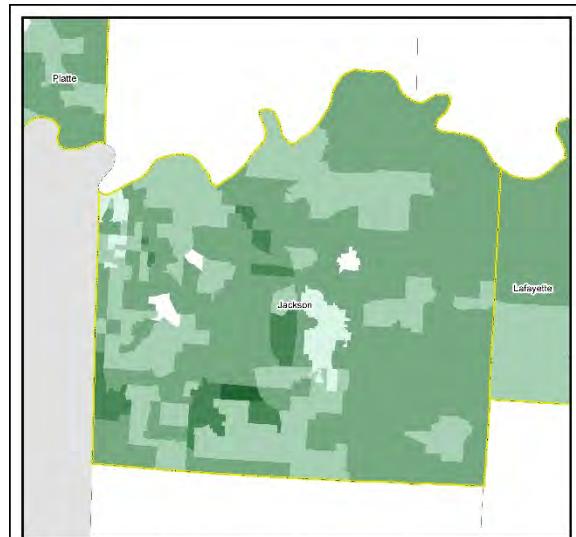






State of Missouri, PDD 4451 - Social Vulnerability
% Age Dependent Populations (Age < 5 or > 65)

< 10%
11% - 20%
21% - 30%
31% - 40%
> 40 %



State of Missouri, PDD 4451 - Social Vulnerability
% Age Dependent Populations (Age < 5 or > 65)

< 10%
11% - 20%
21% - 30%
31% - 40%
> 40 %



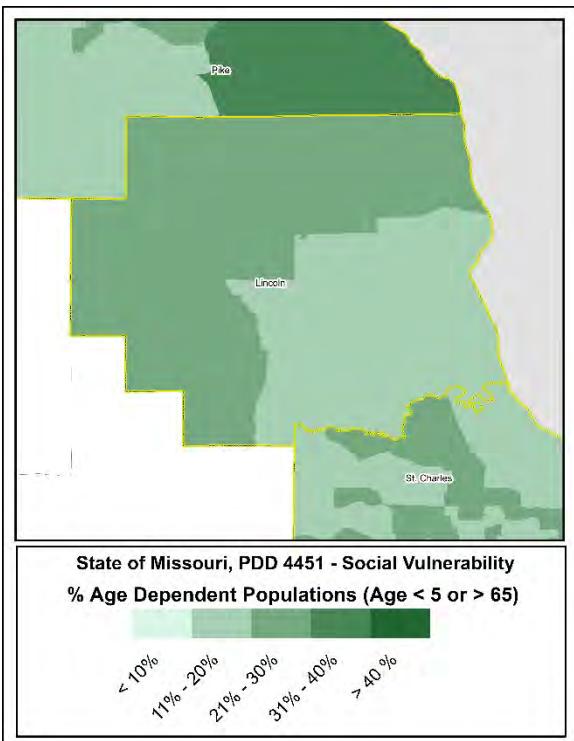
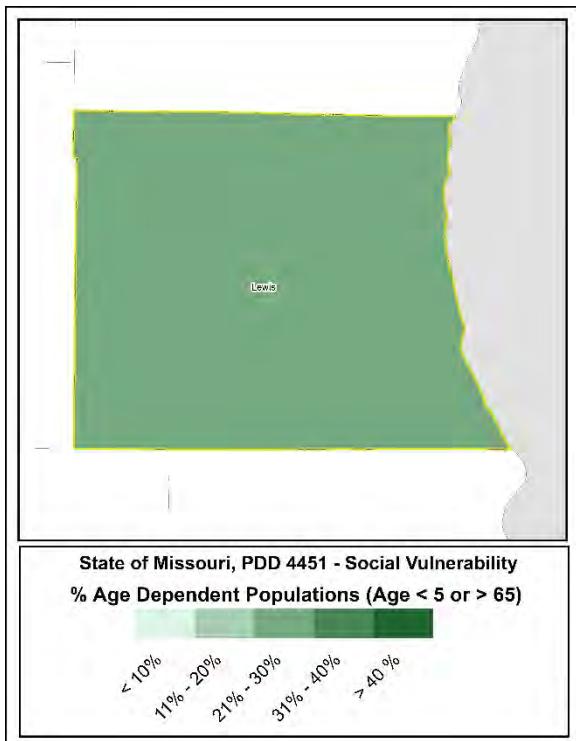
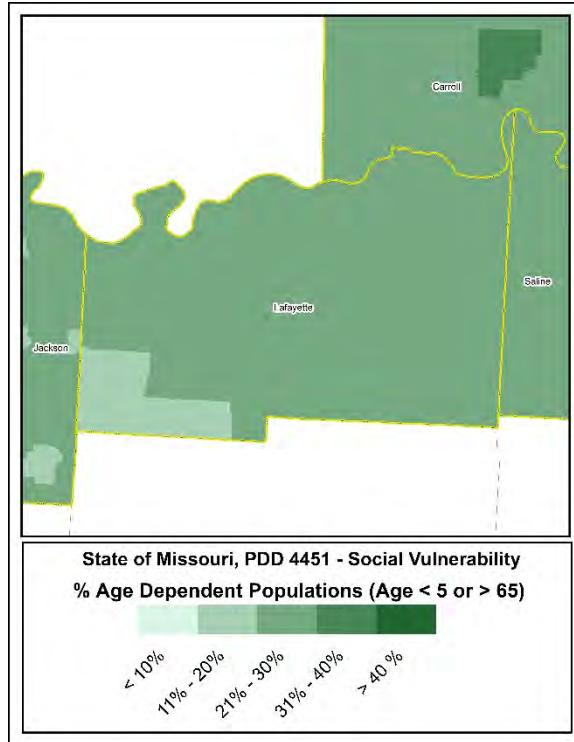
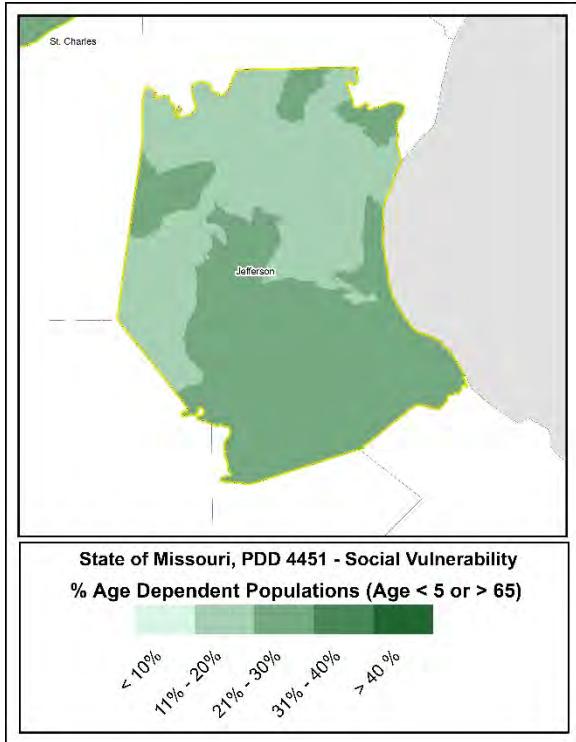
State of Missouri, PDD 4451 - Social Vulnerability
% Age Dependent Populations (Age < 5 or > 65)

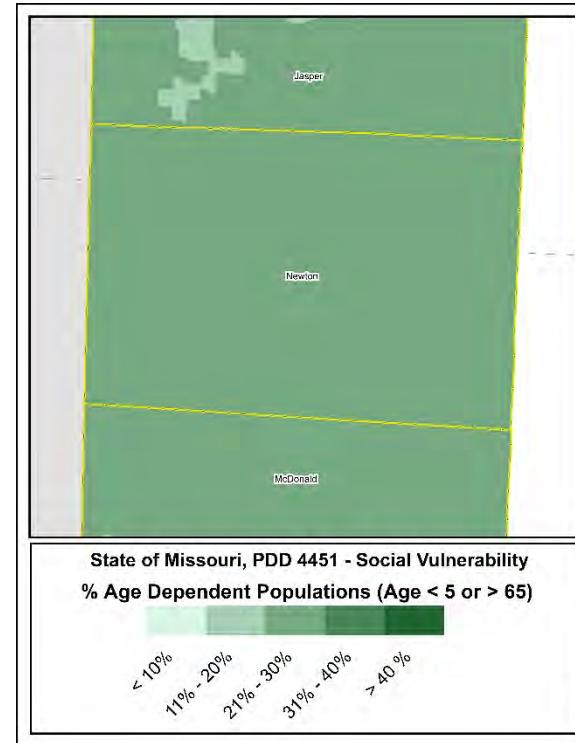
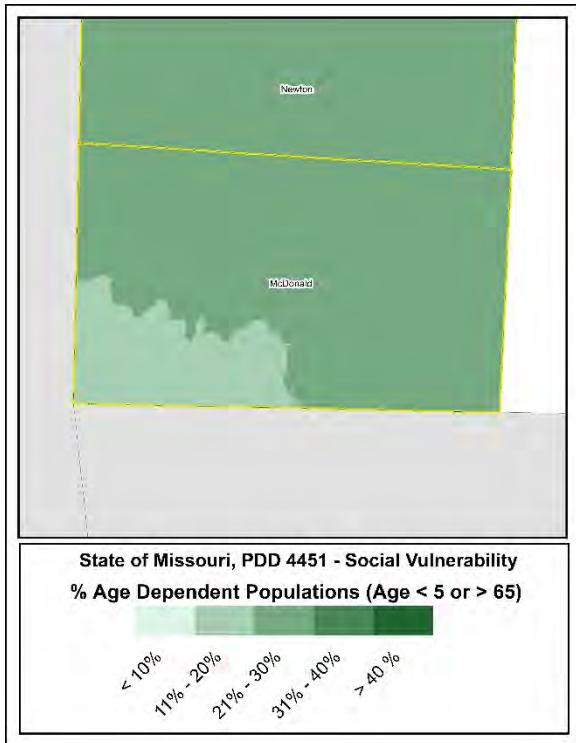
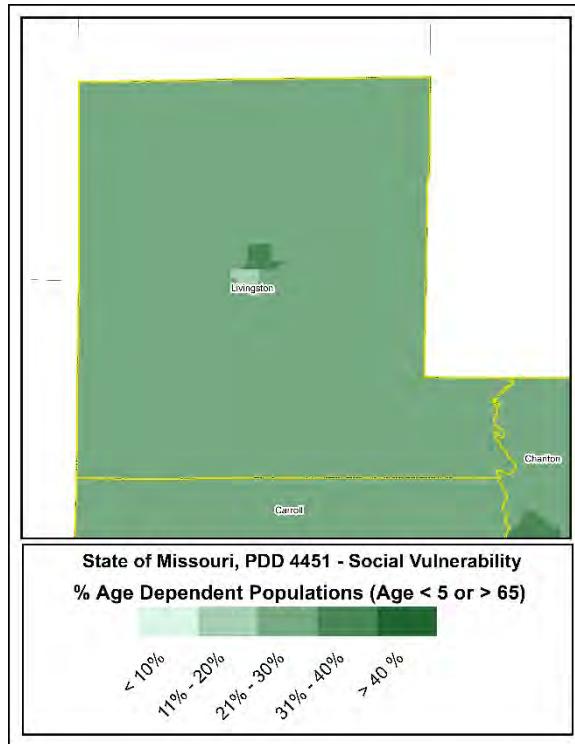
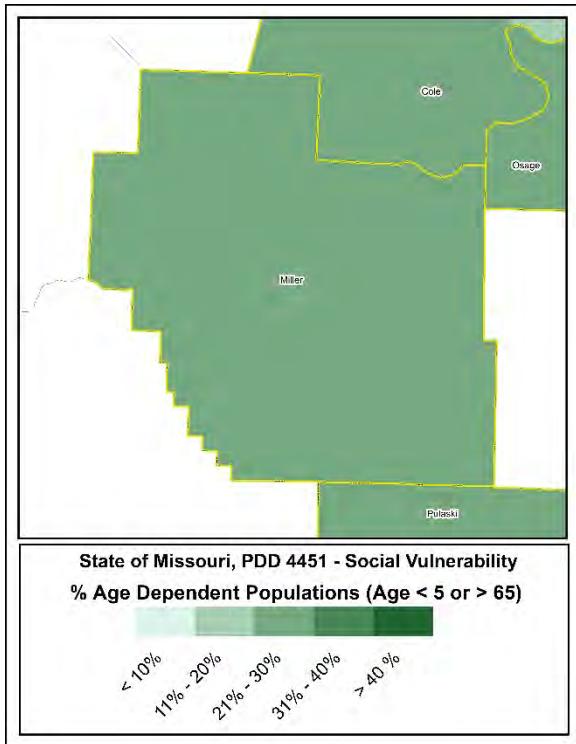
< 10%
11% - 20%
21% - 30%
31% - 40%
> 40 %

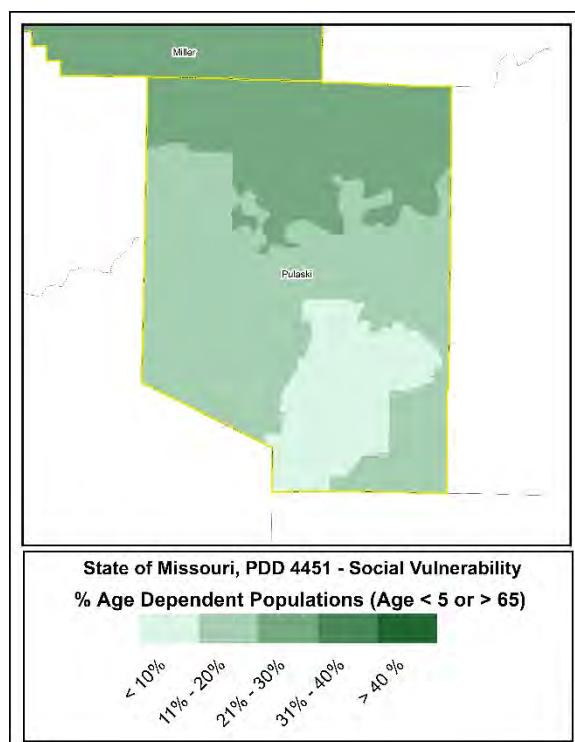
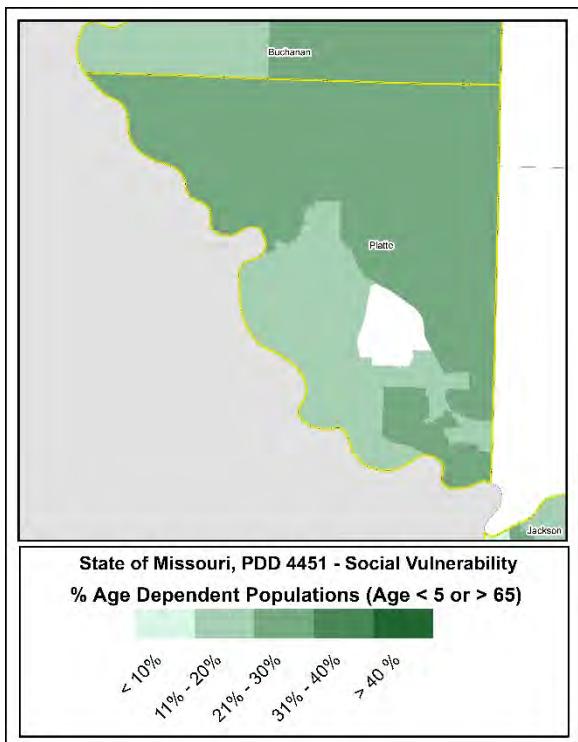
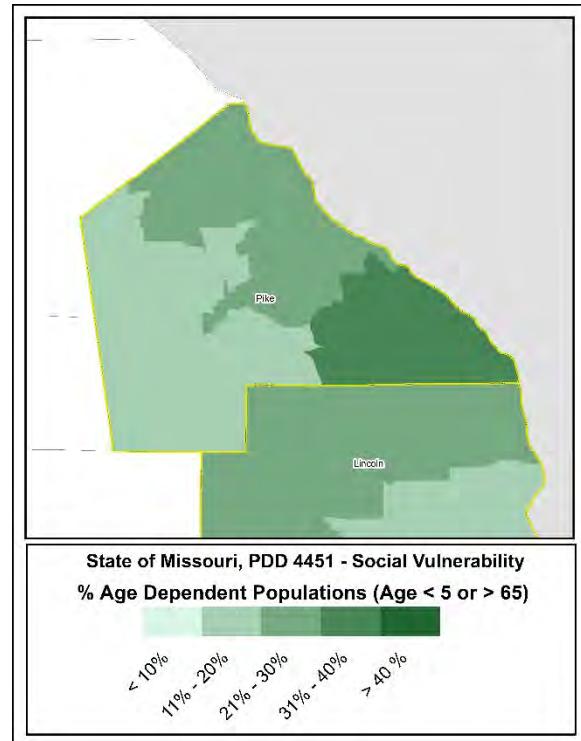
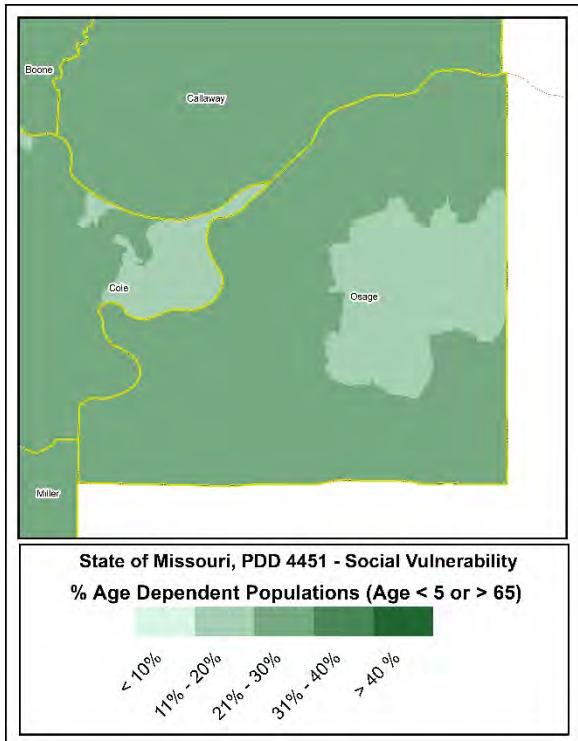


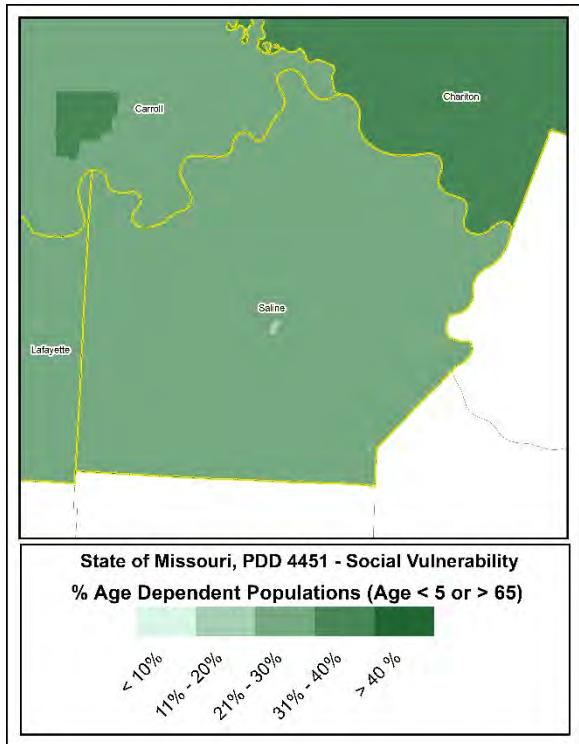
State of Missouri, PDD 4451 - Social Vulnerability
% Age Dependent Populations (Age < 5 or > 65)

< 10%
11% - 20%
21% - 30%
31% - 40%
> 40 %

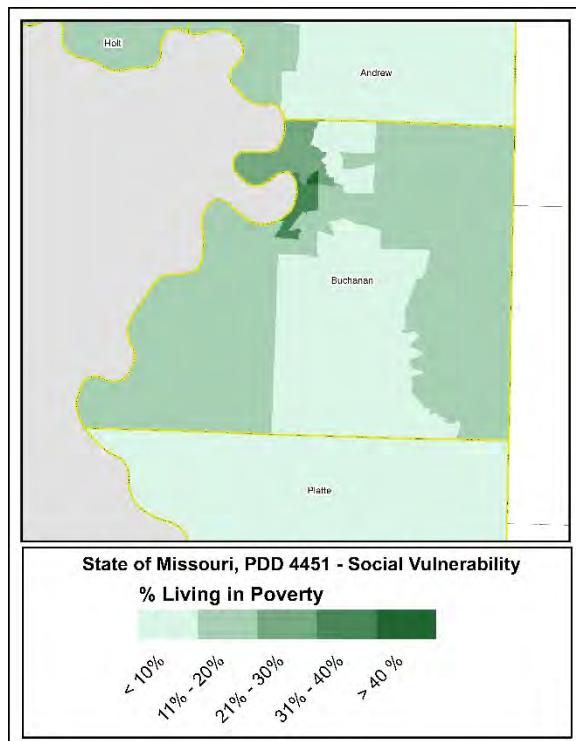
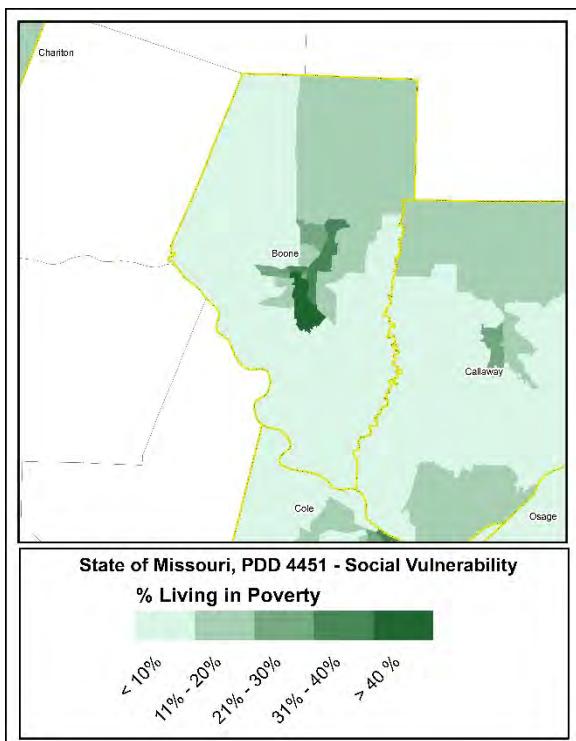
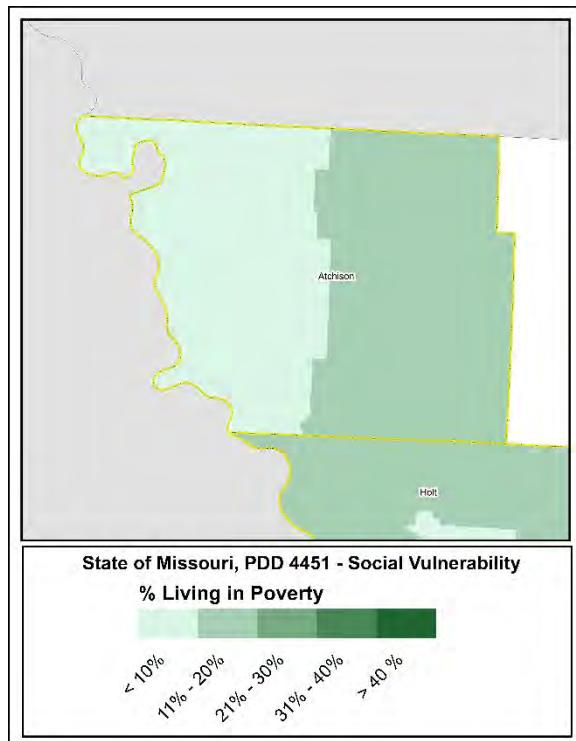
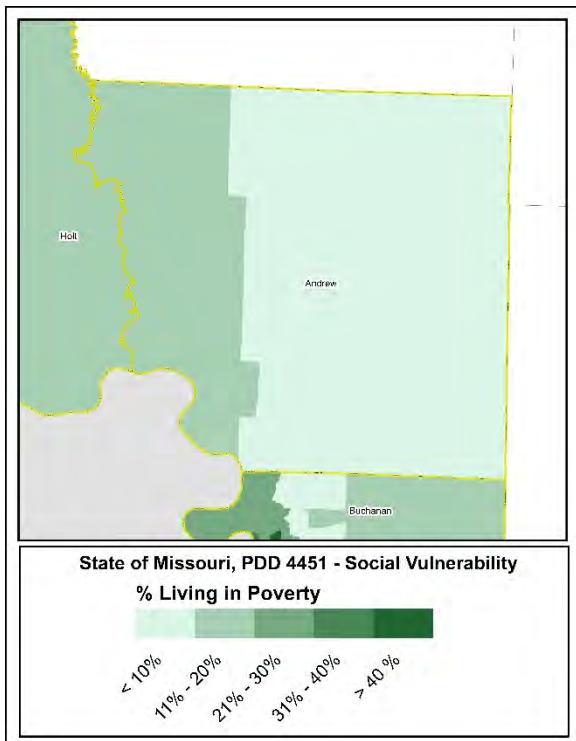


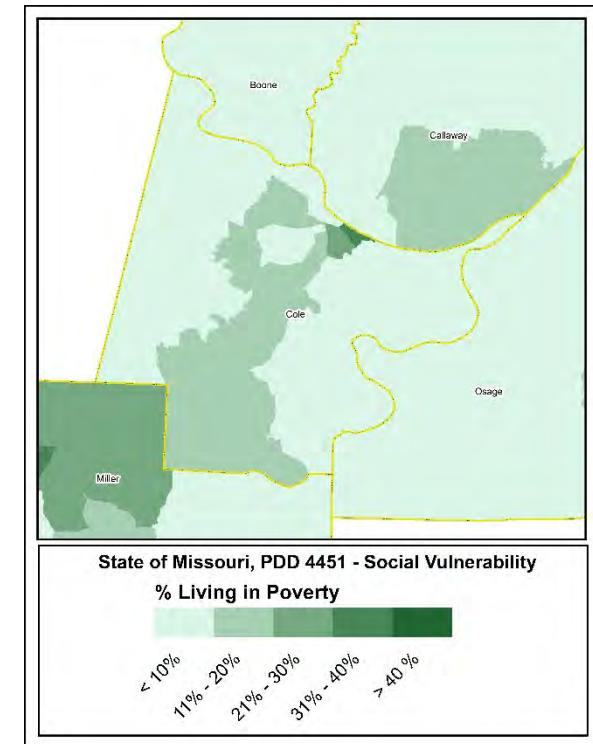
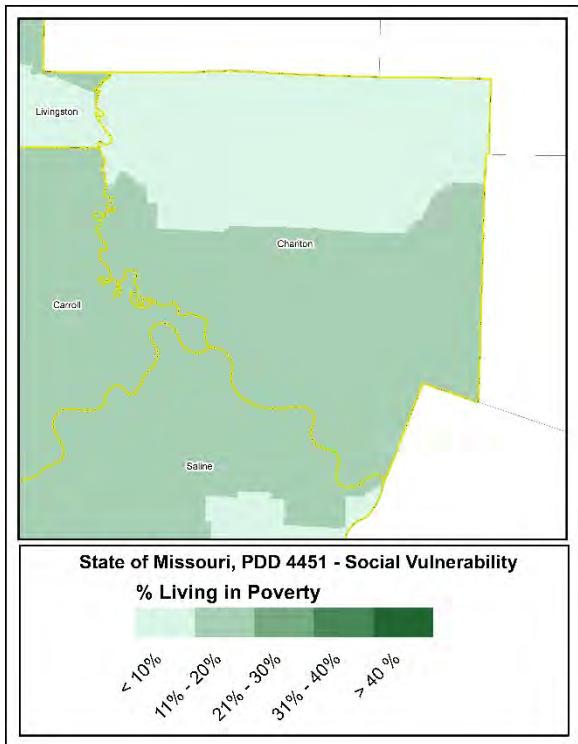
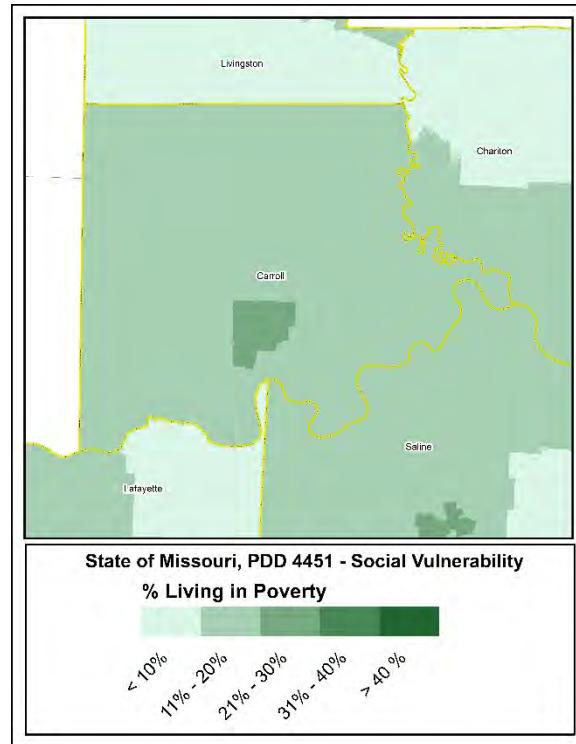
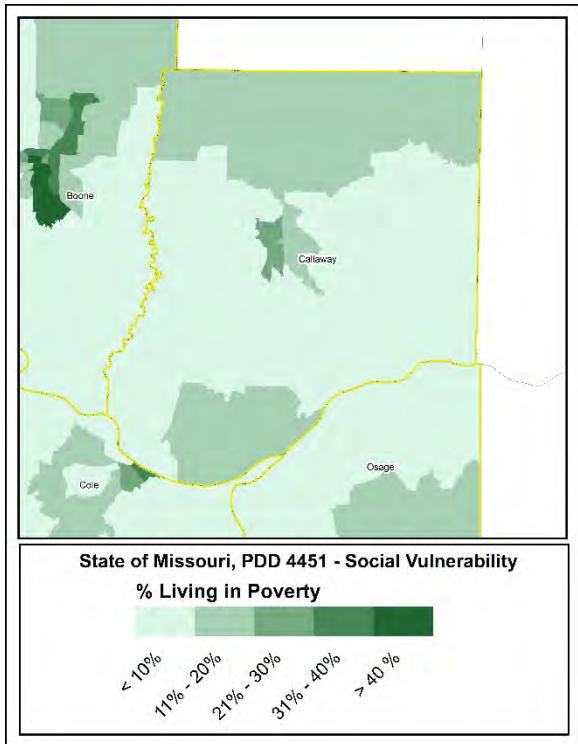


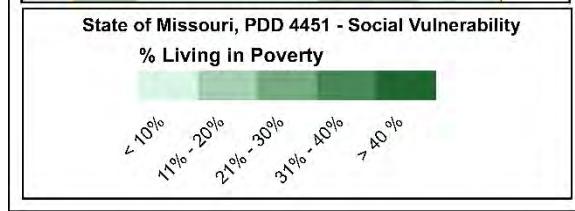
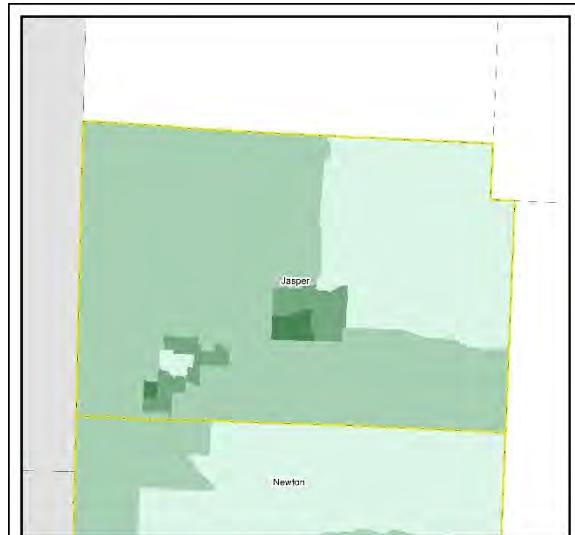
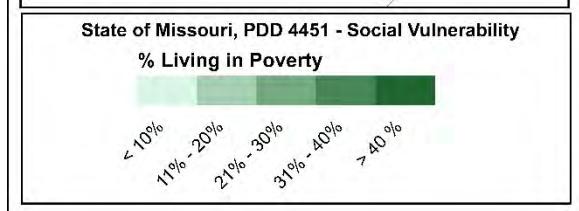
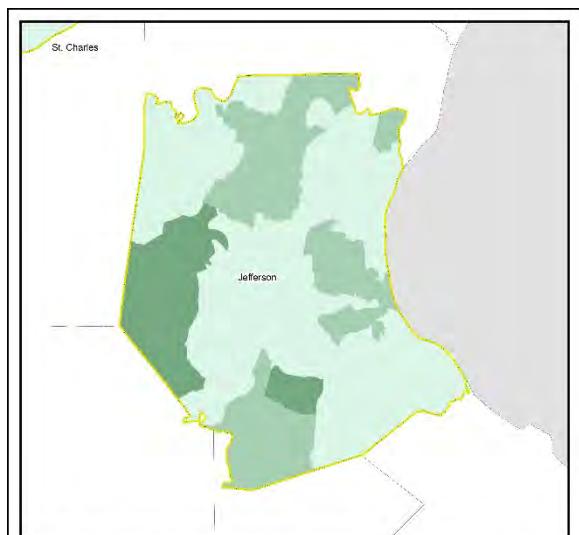
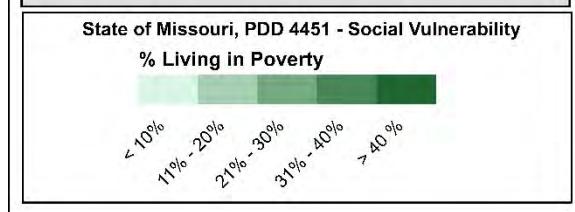
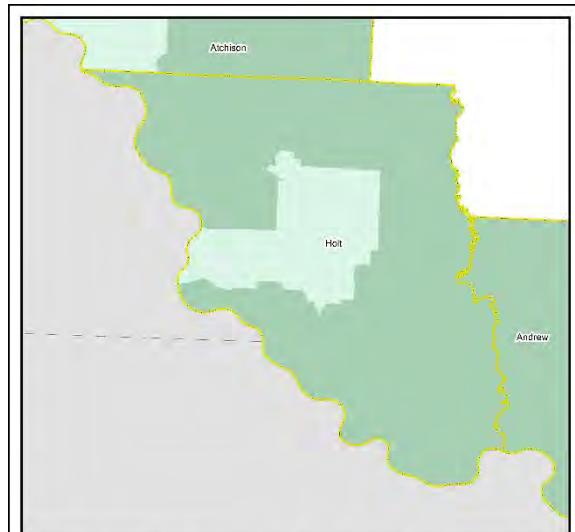
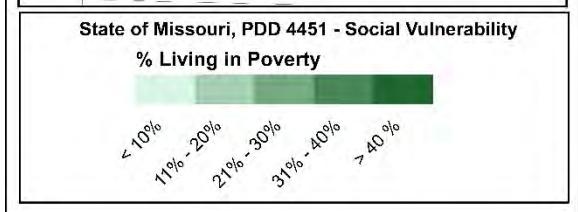
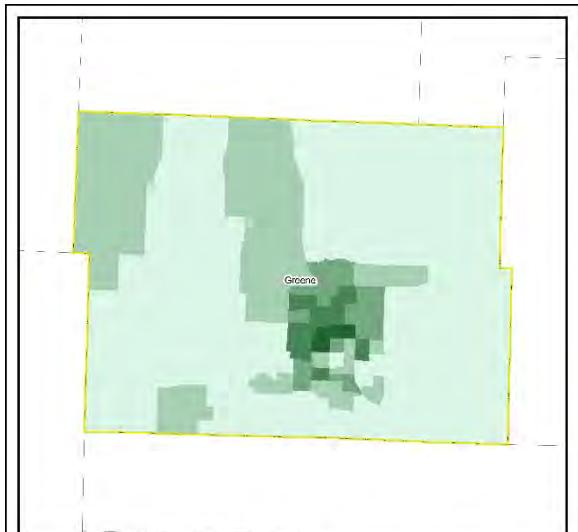


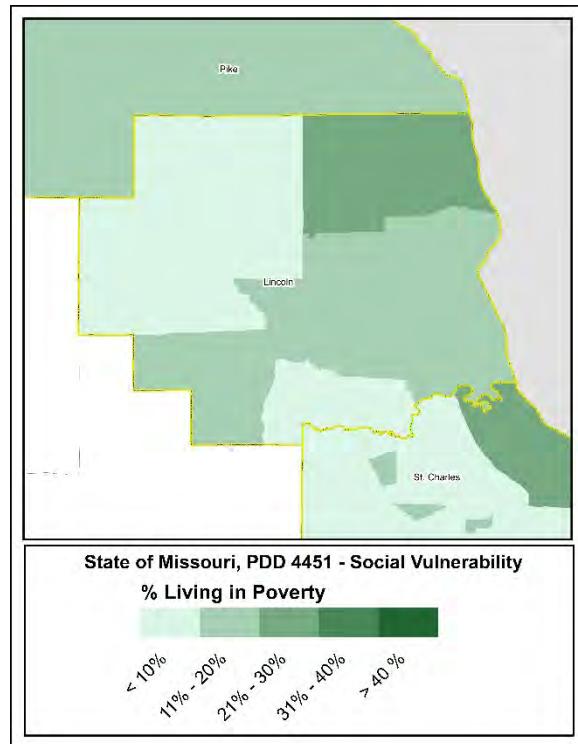
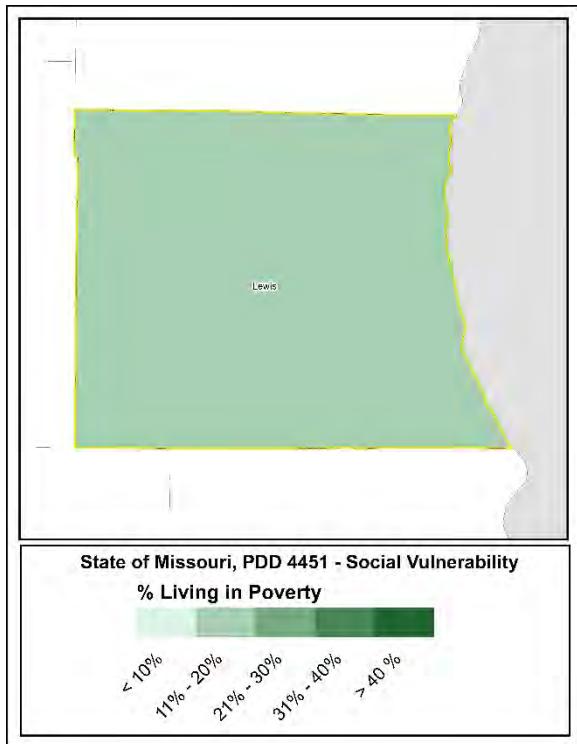
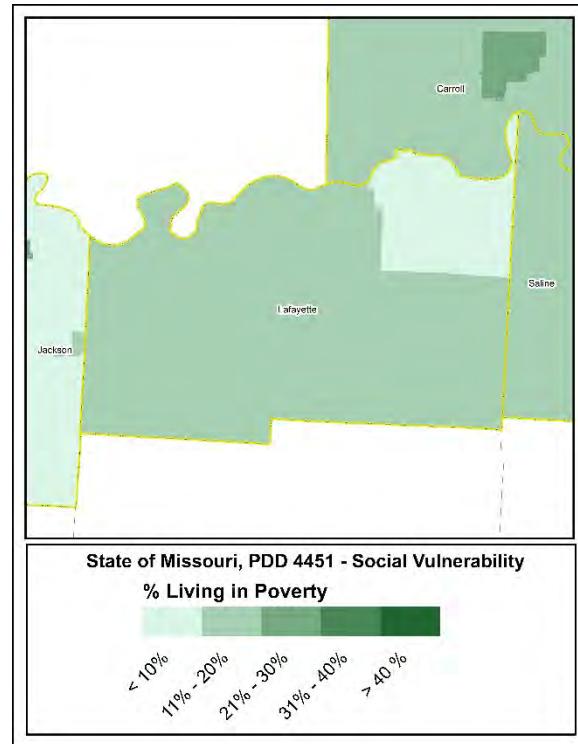
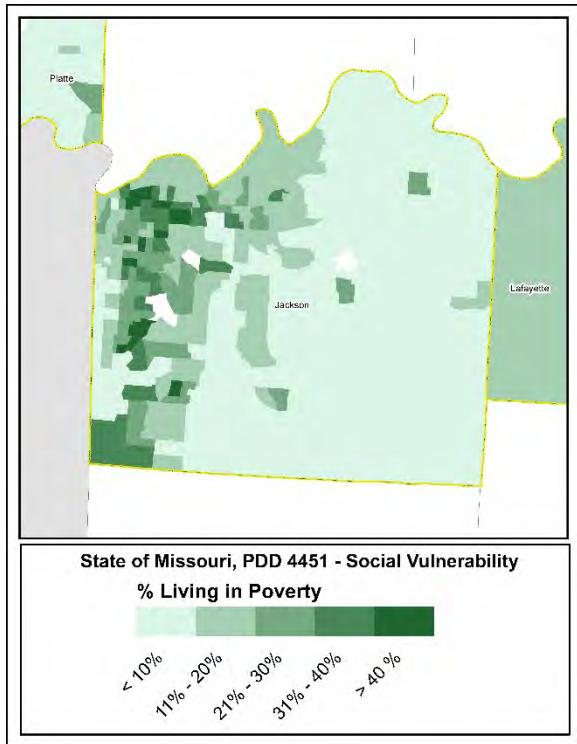


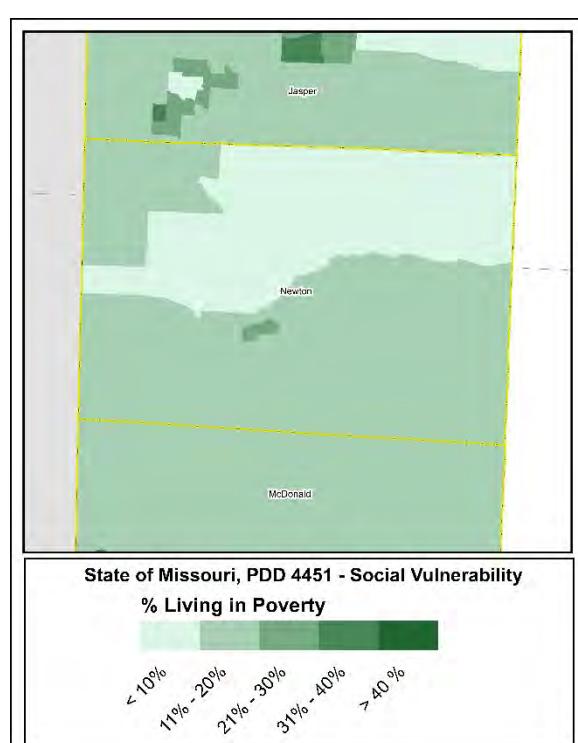
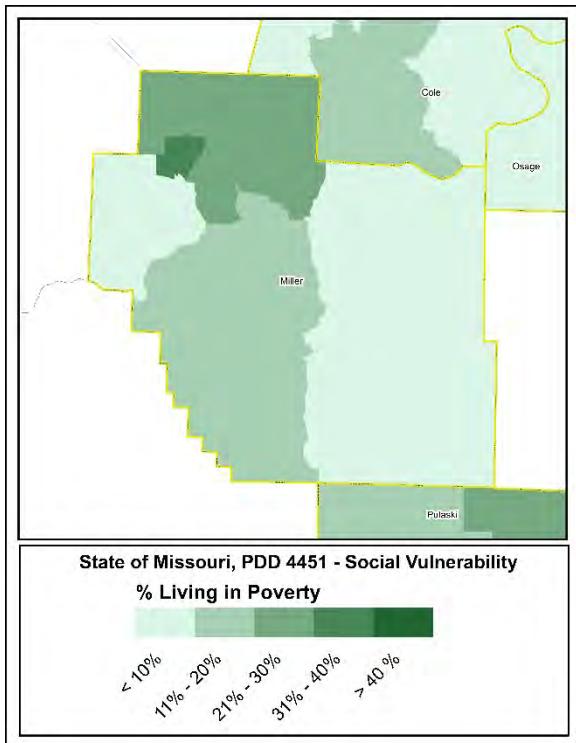
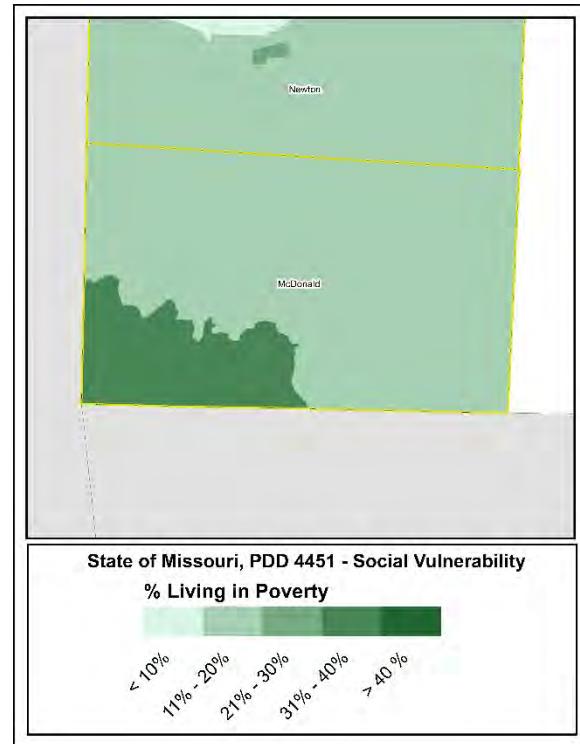
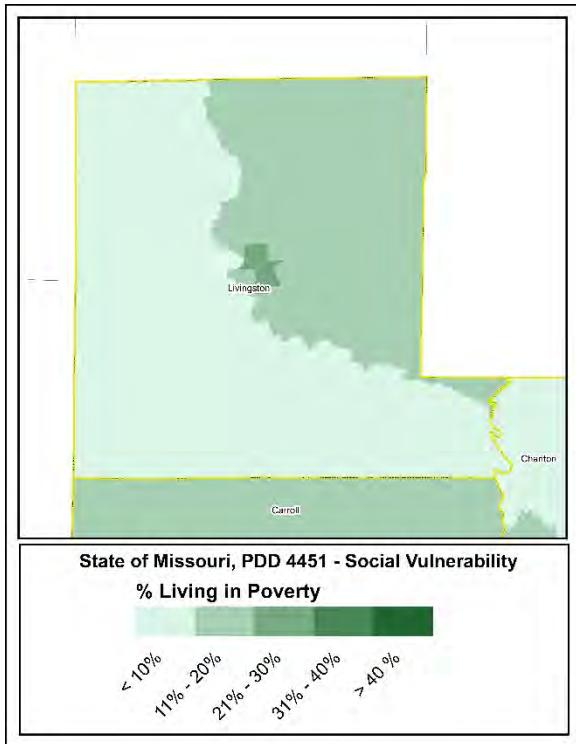
APPENDIX G: DR-4451 County Poverty

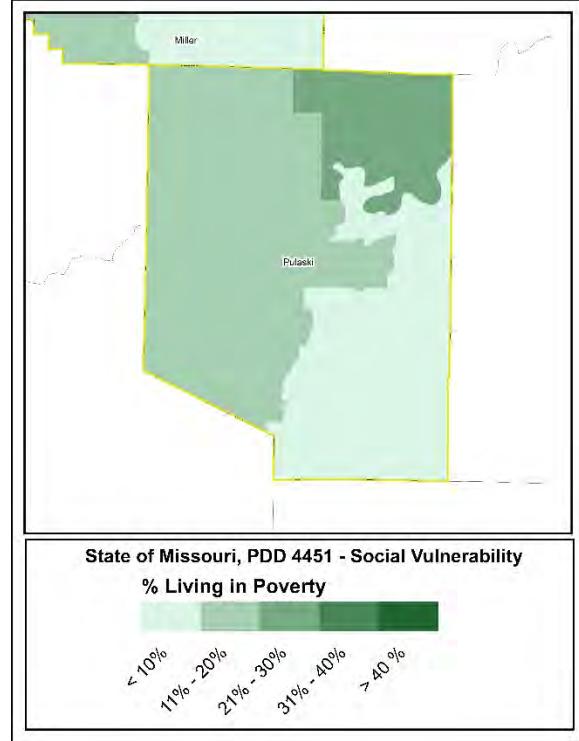
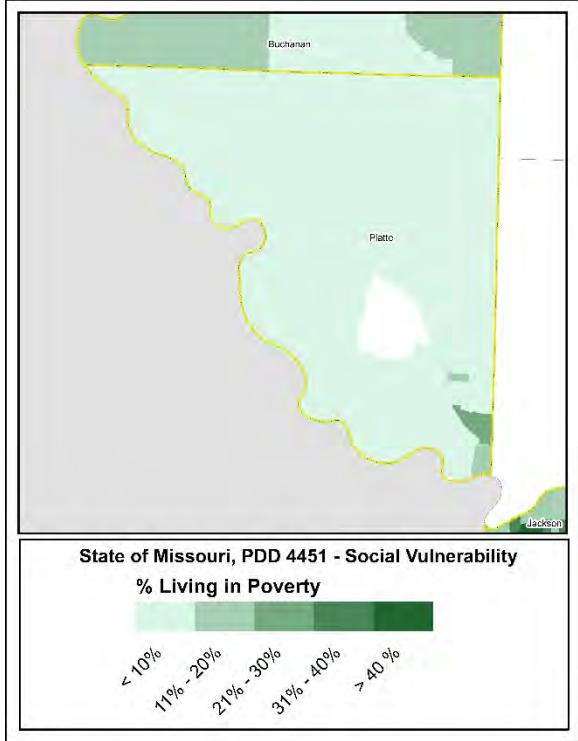
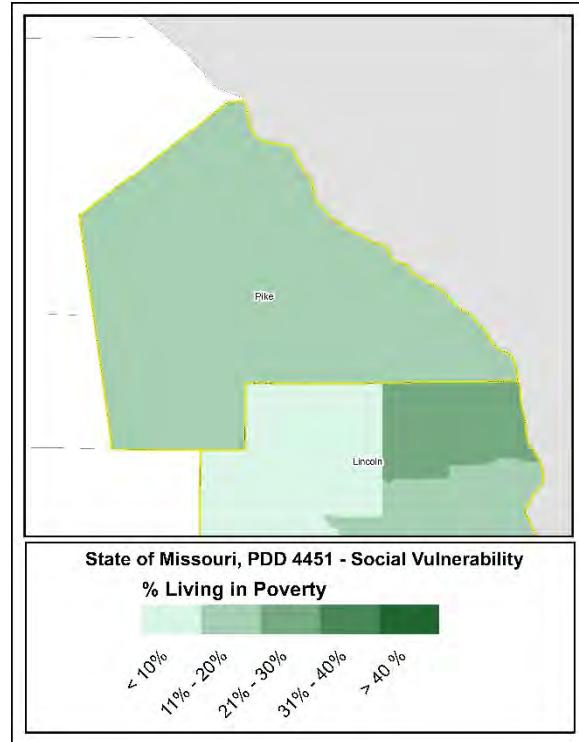
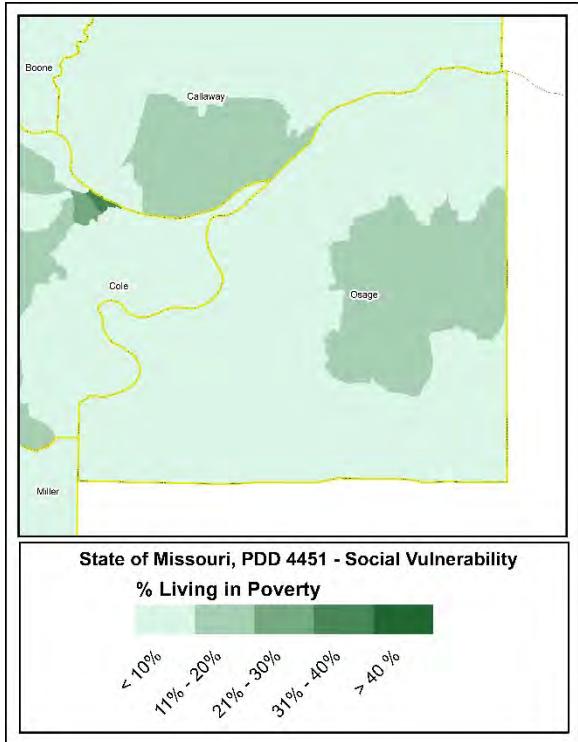


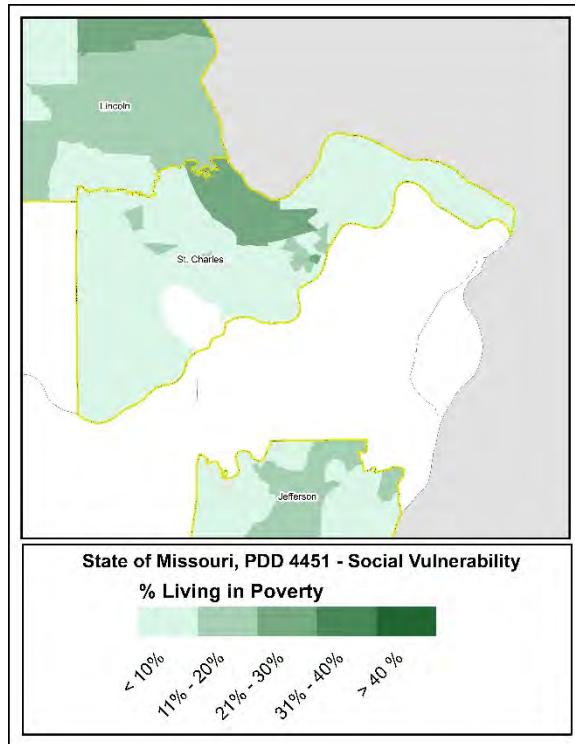
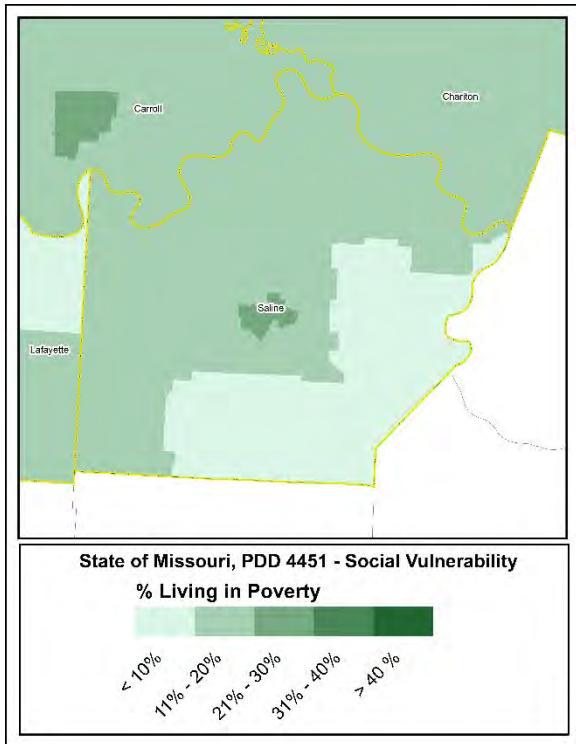




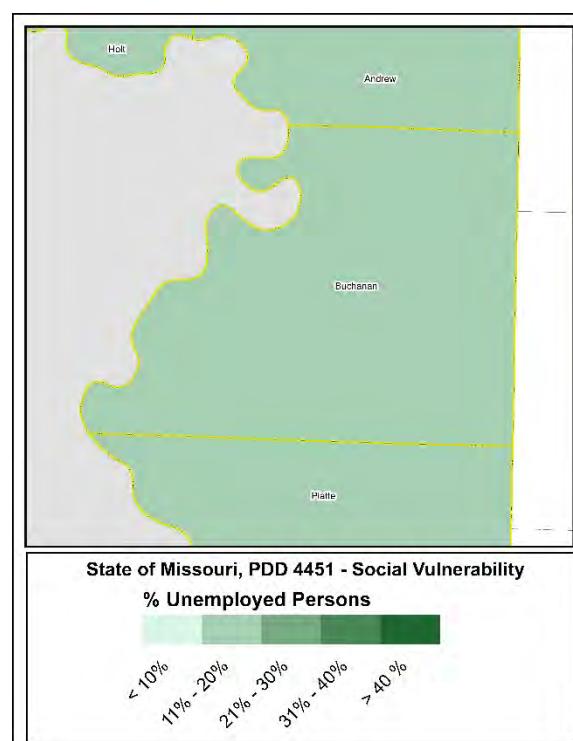
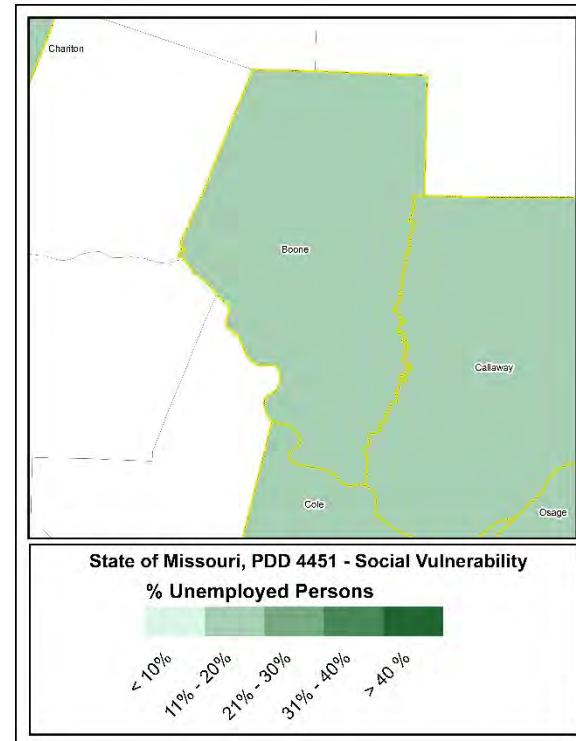
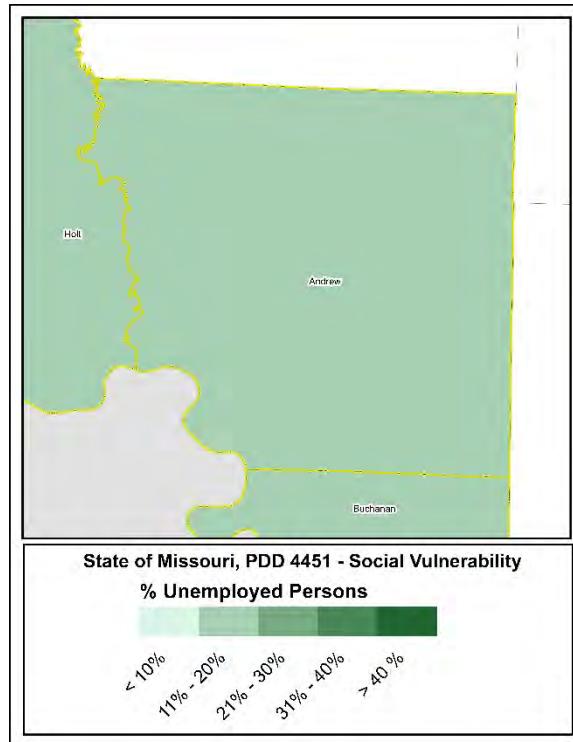
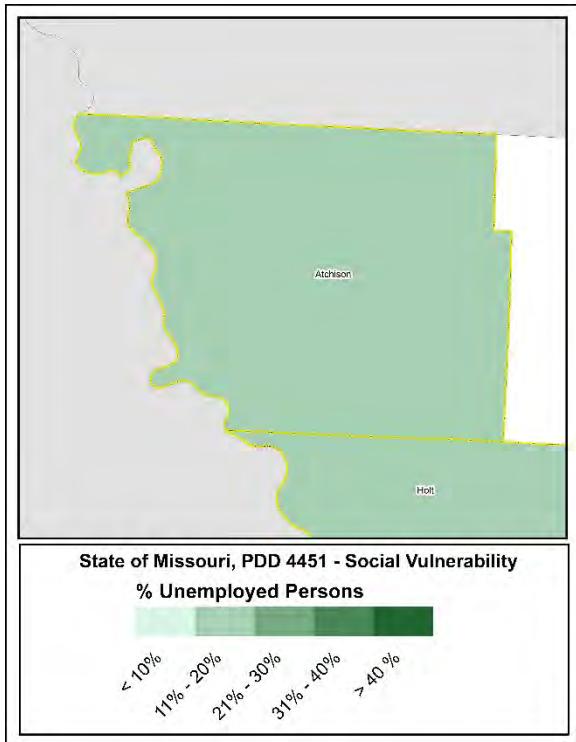


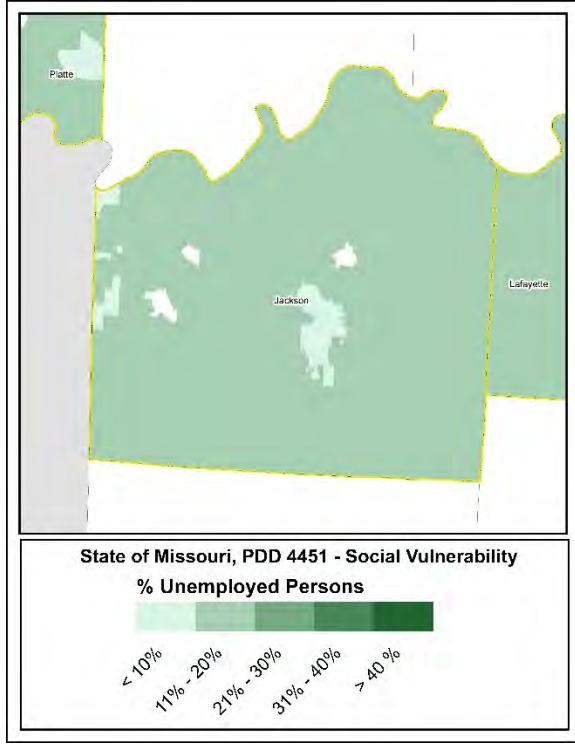
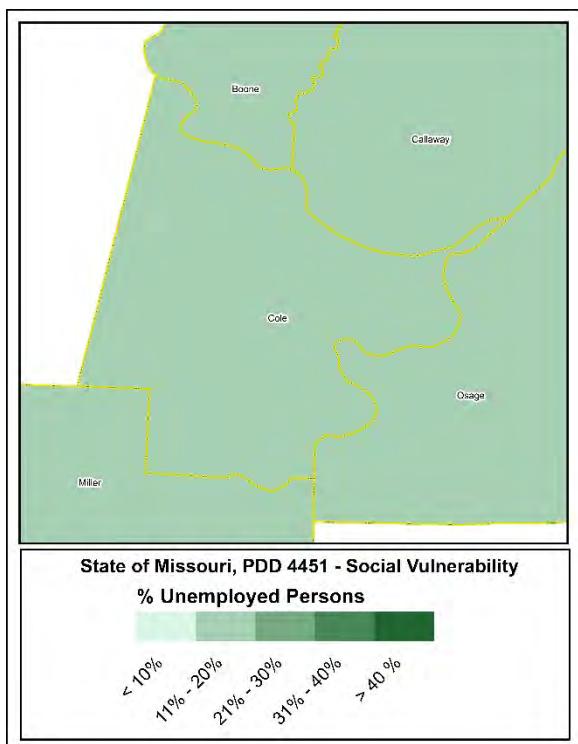
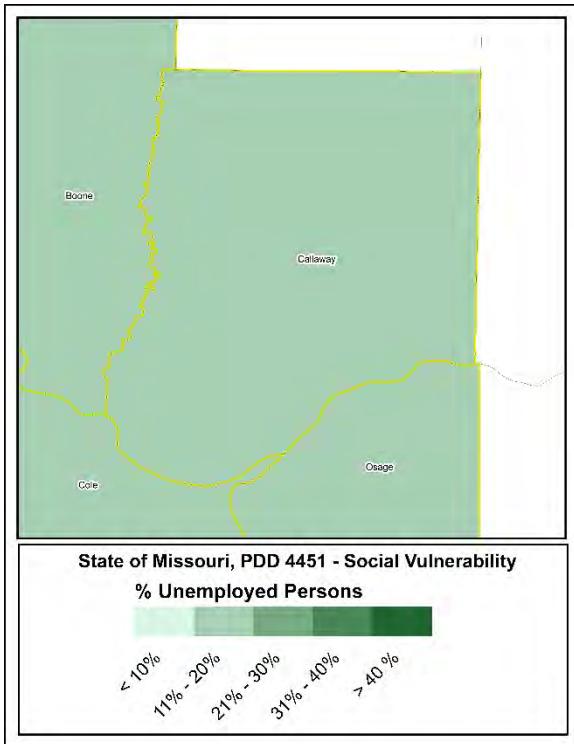
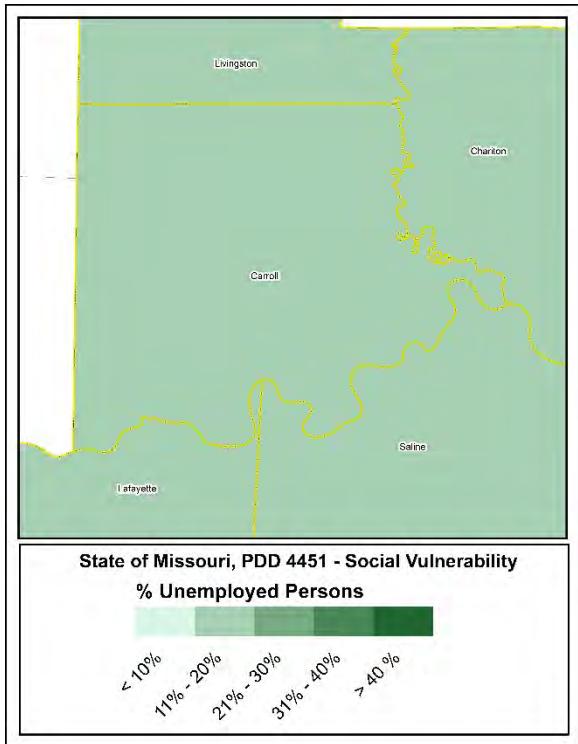


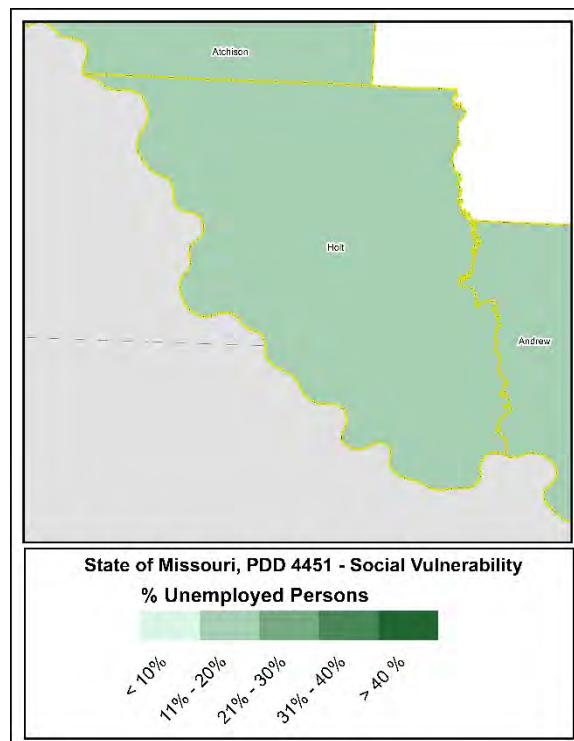
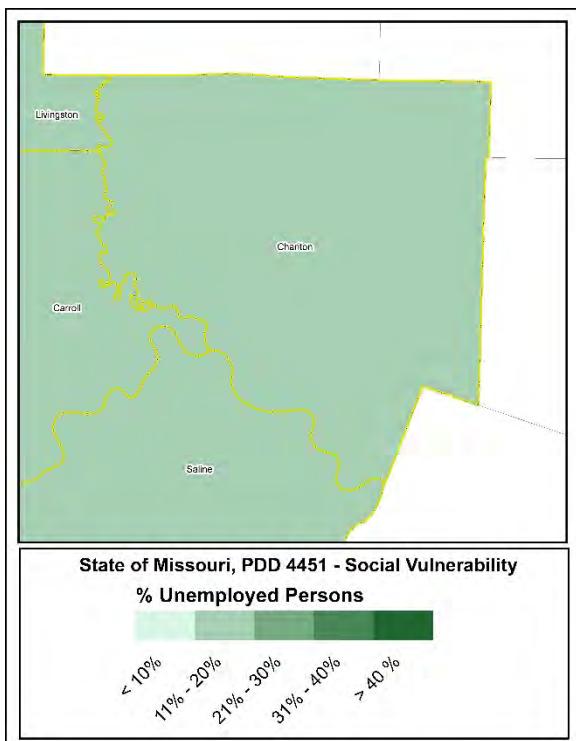
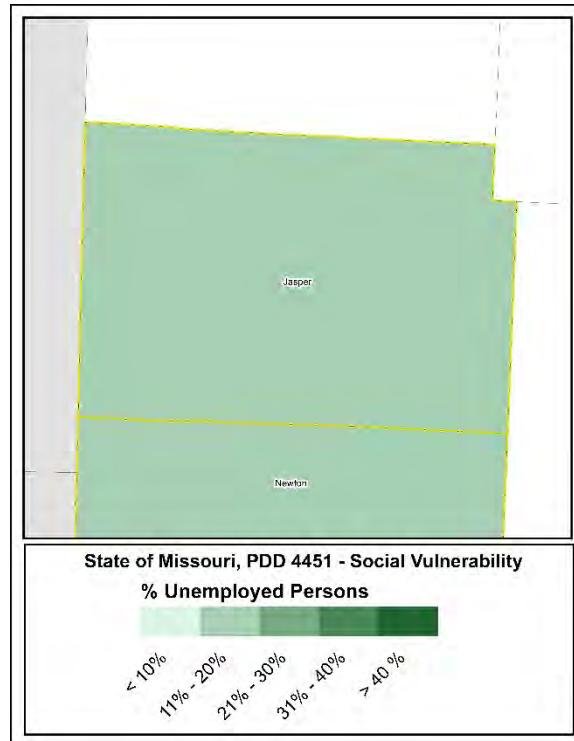
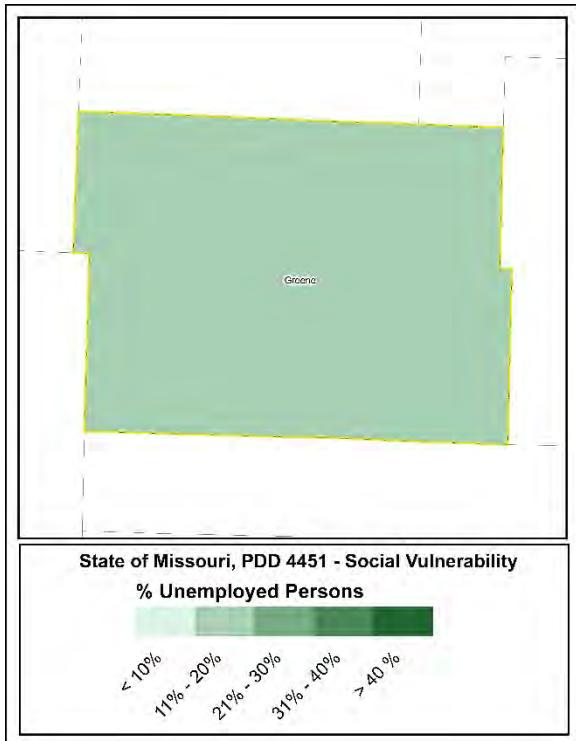


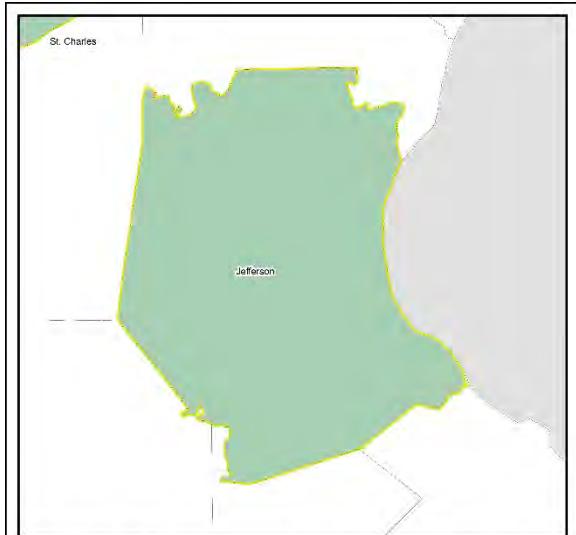


APPENDIX H: DR-4451 County Unemployment





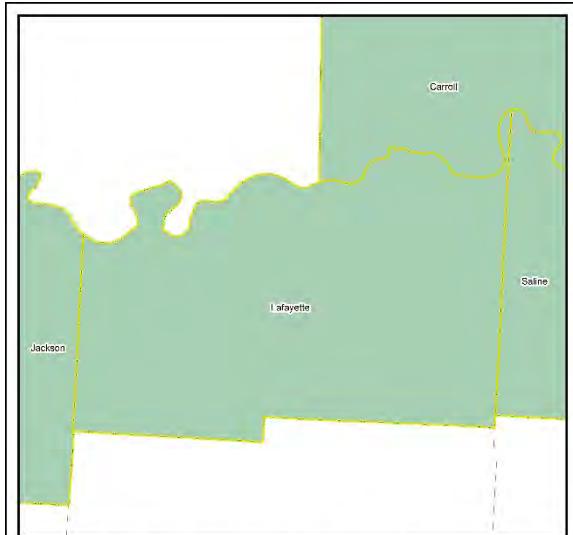




State of Missouri, PDD 4451 - Social Vulnerability

% Unemployed Persons

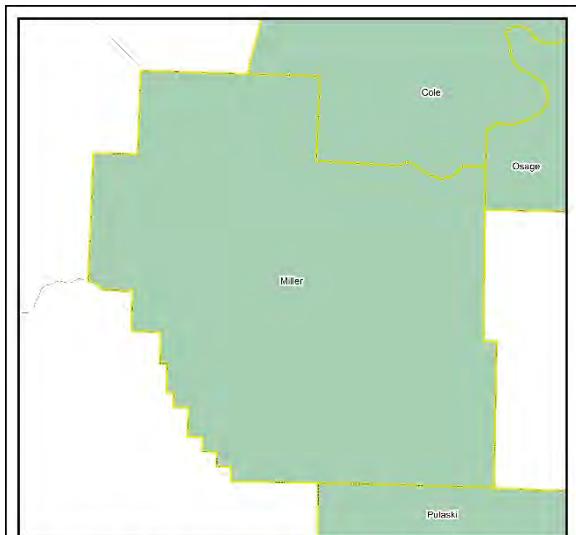
< 10%
11% - 20%
21% - 30%
31% - 40%
> 40%



State of Missouri, PDD 4451 - Social Vulnerability

% Unemployed Persons

< 10%
11% - 20%
21% - 30%
31% - 40%
> 40%



State of Missouri, PDD 4451 - Social Vulnerability

% Unemployed Persons

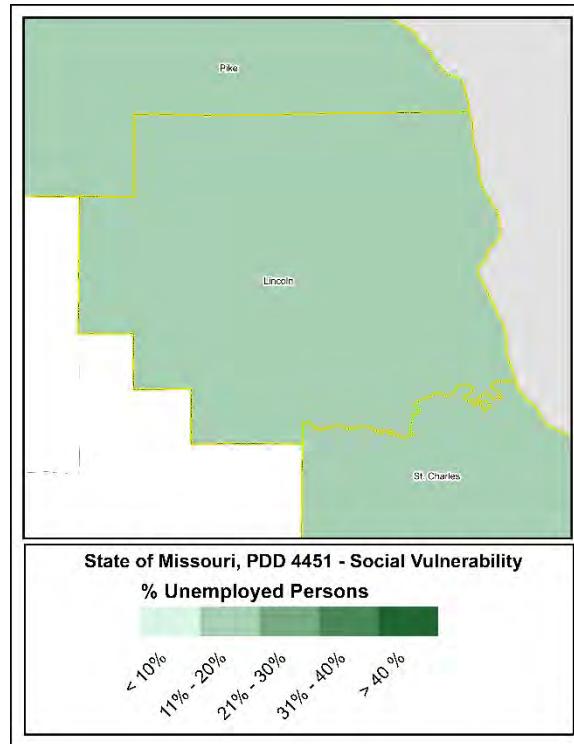
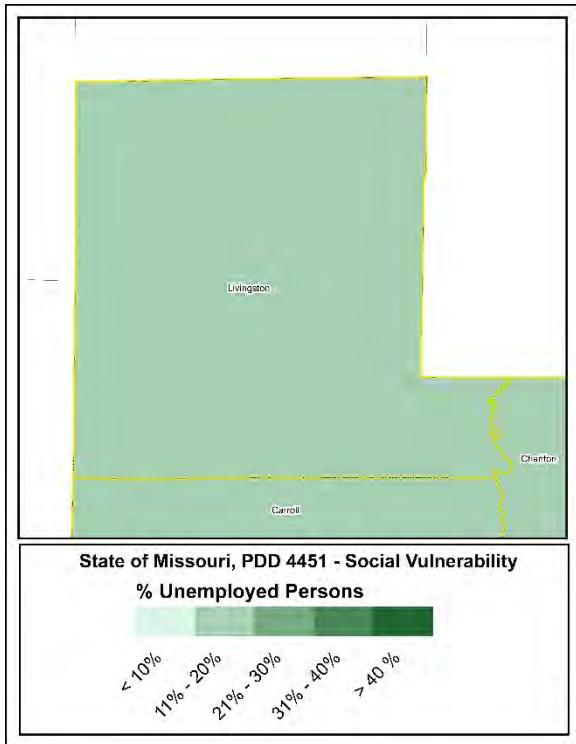
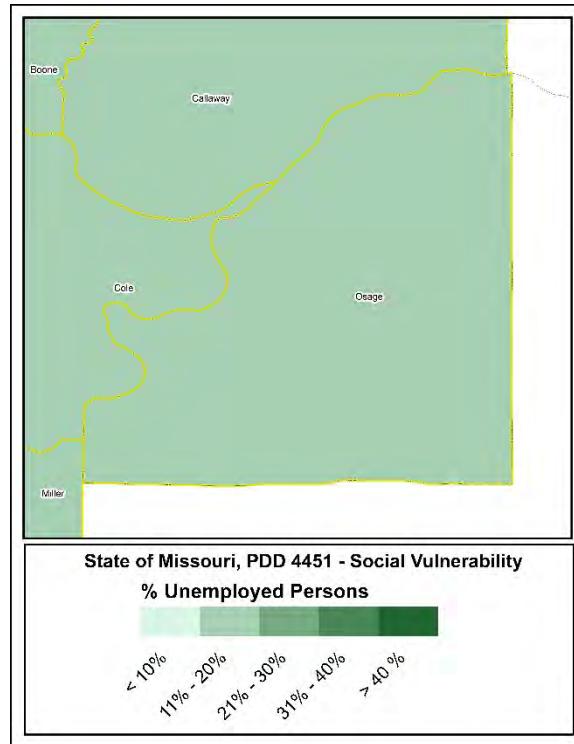
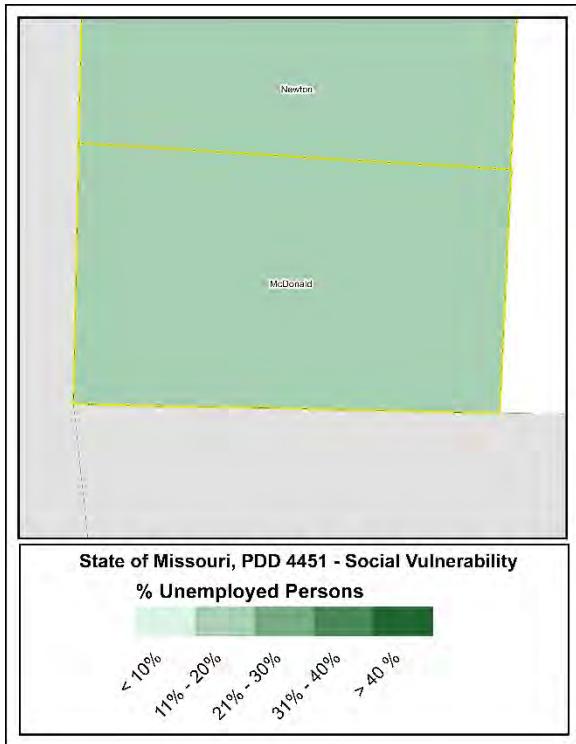
< 10%
11% - 20%
21% - 30%
31% - 40%
> 40%

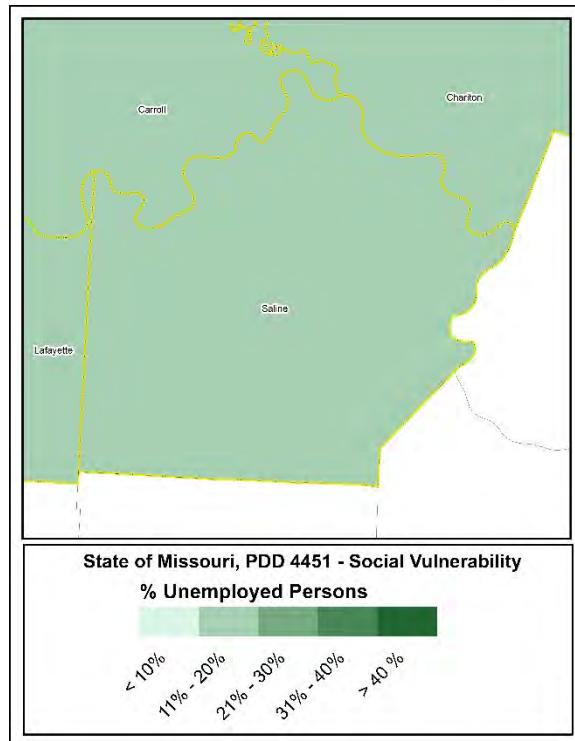
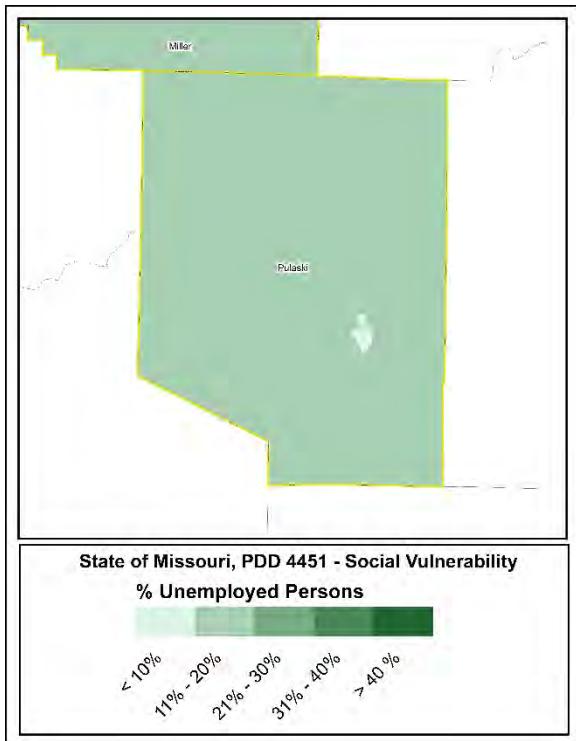
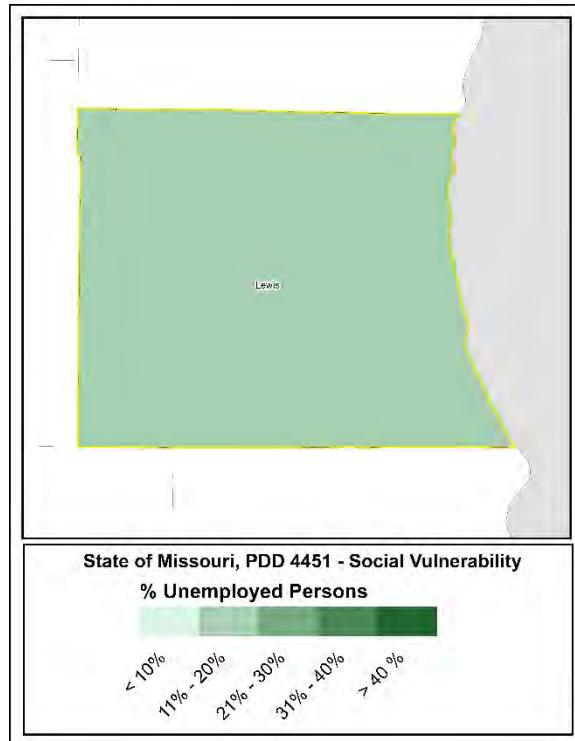
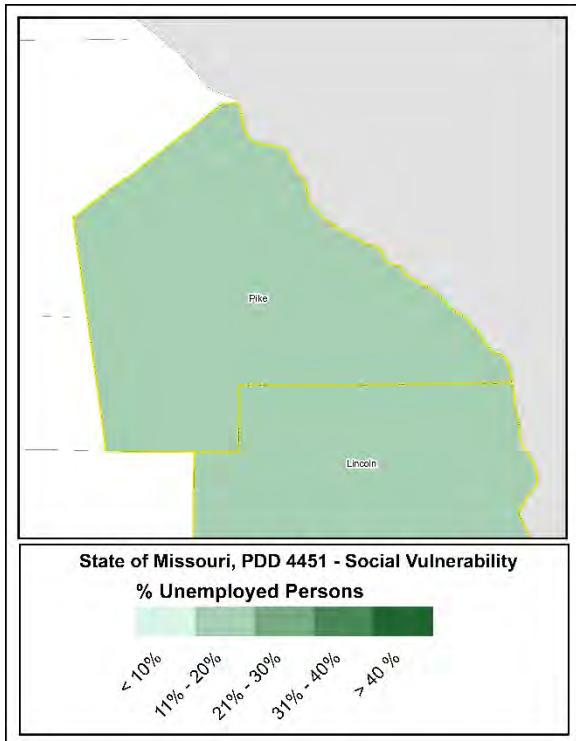


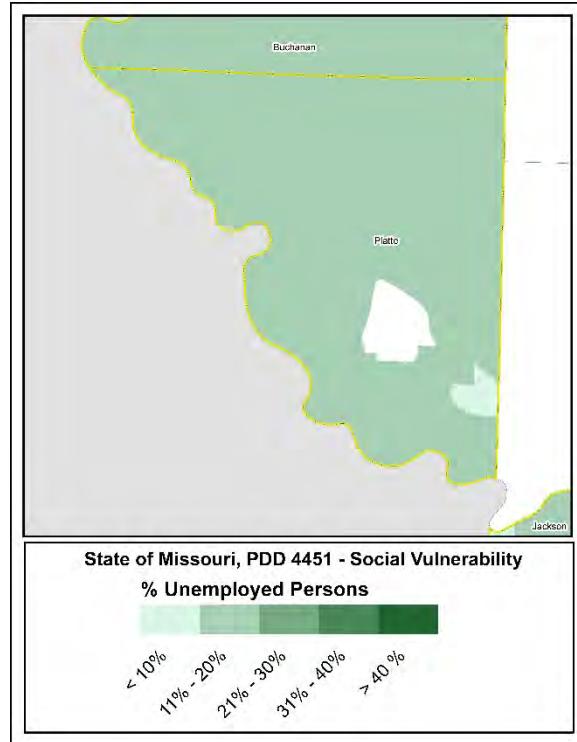
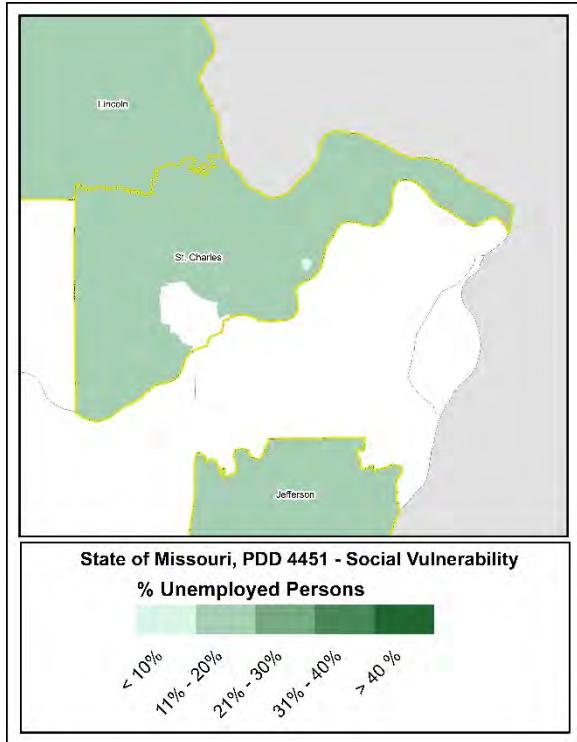
State of Missouri, PDD 4451 - Social Vulnerability

% Unemployed Persons

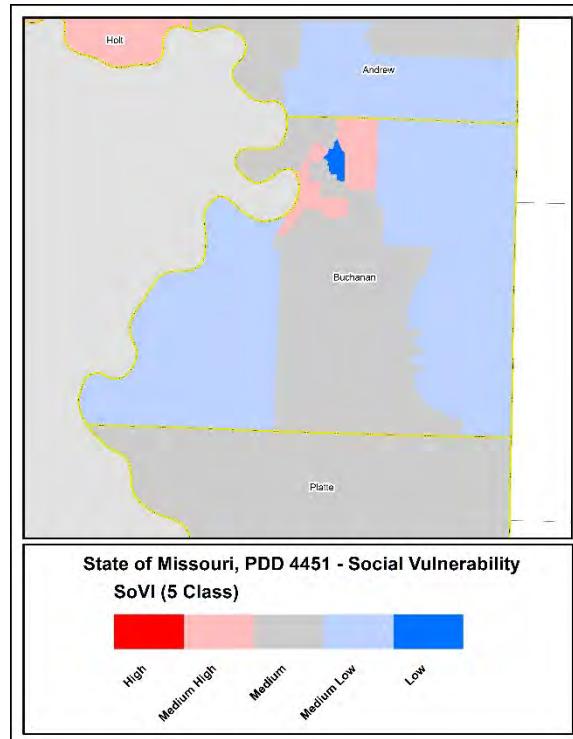
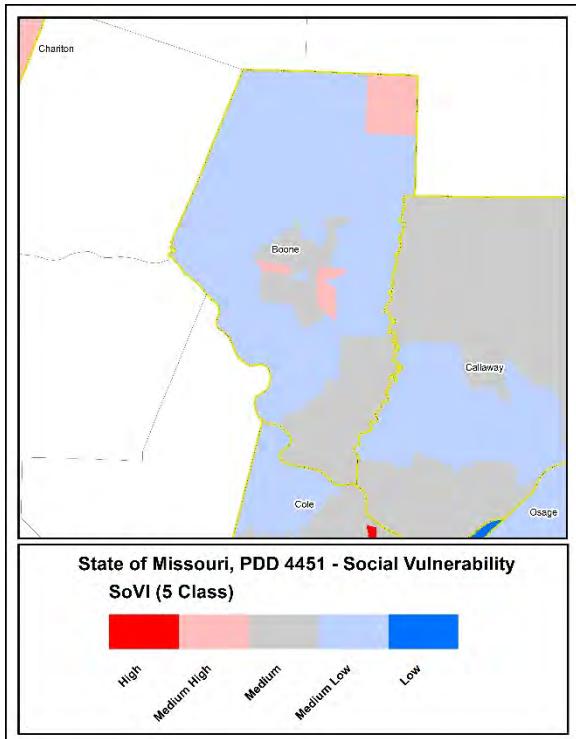
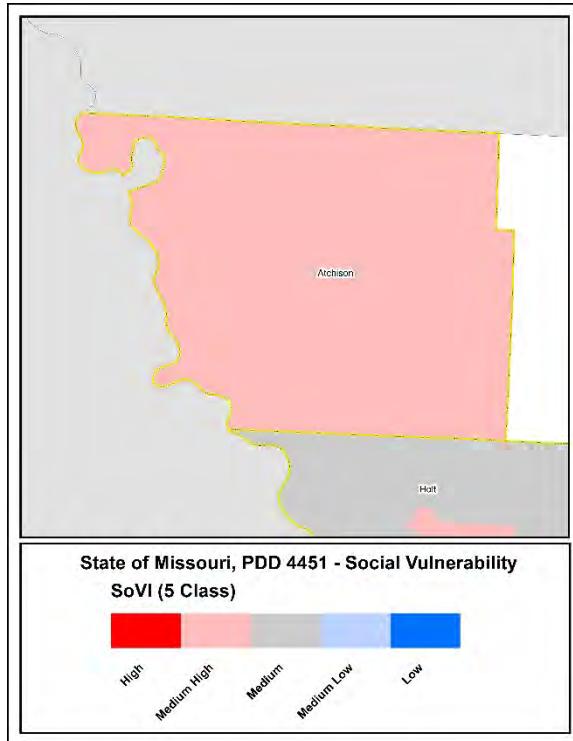
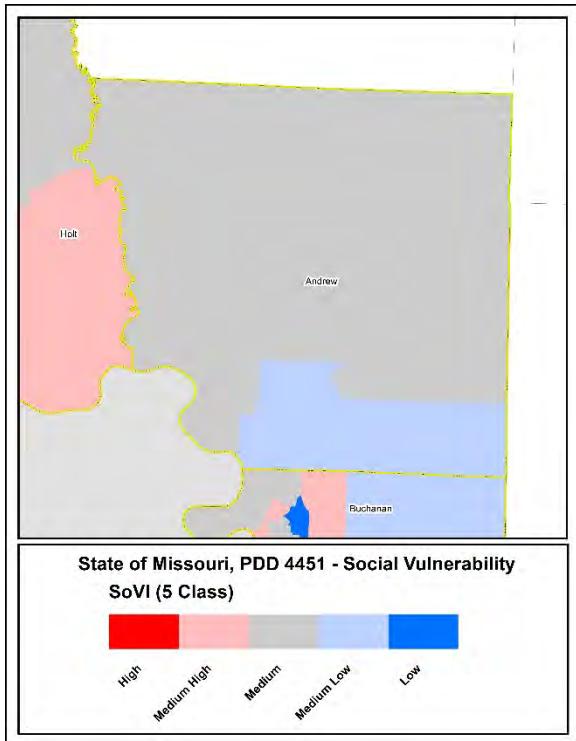
< 10%
11% - 20%
21% - 30%
31% - 40%
> 40%

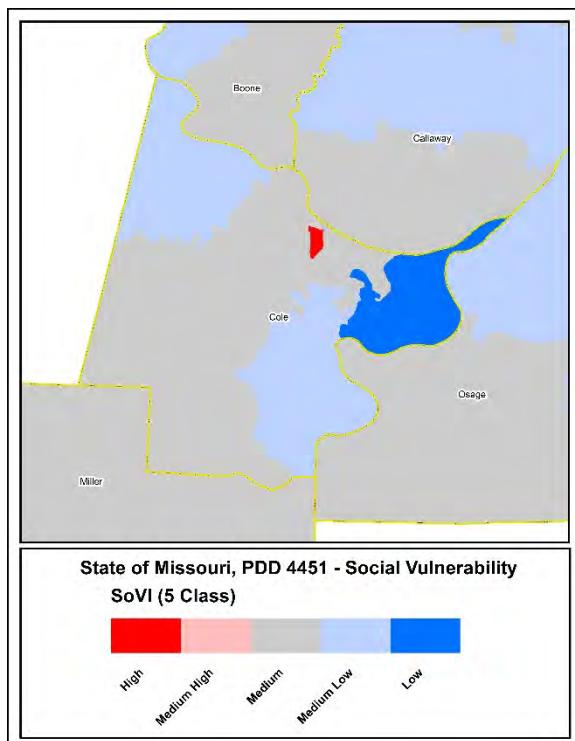
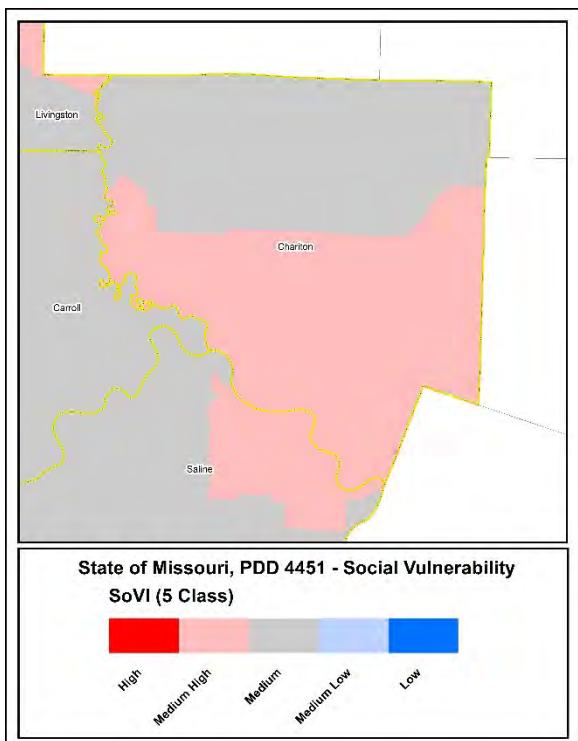
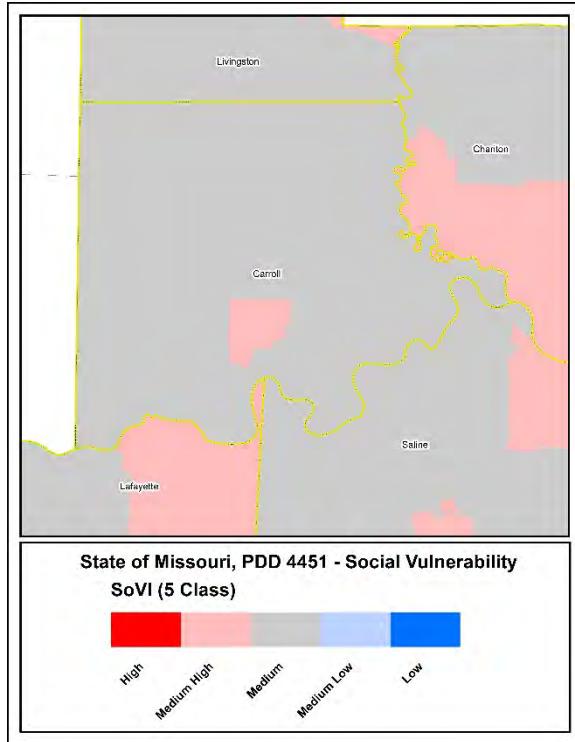
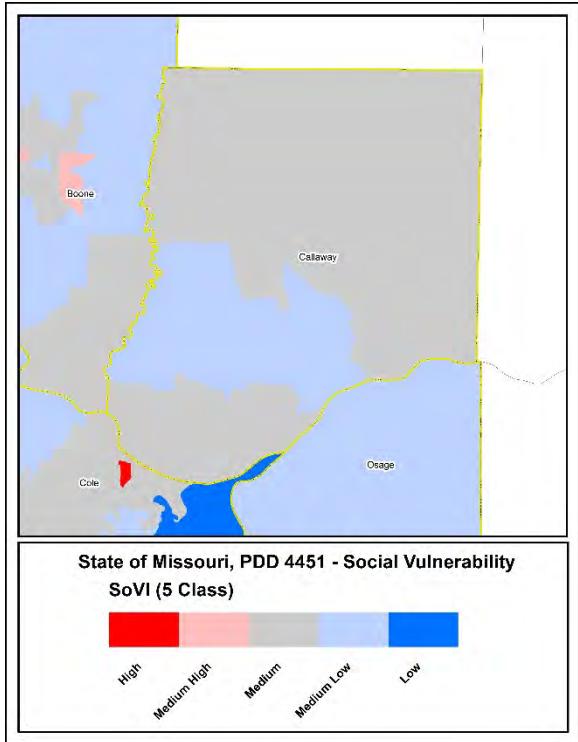


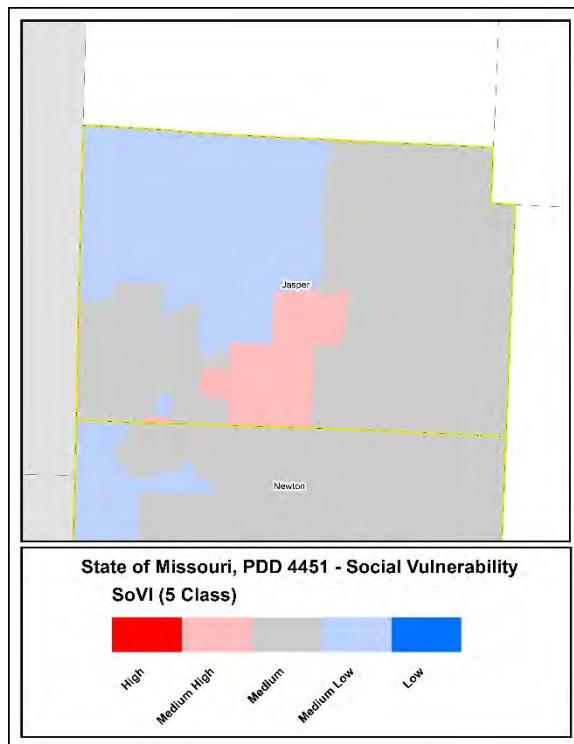
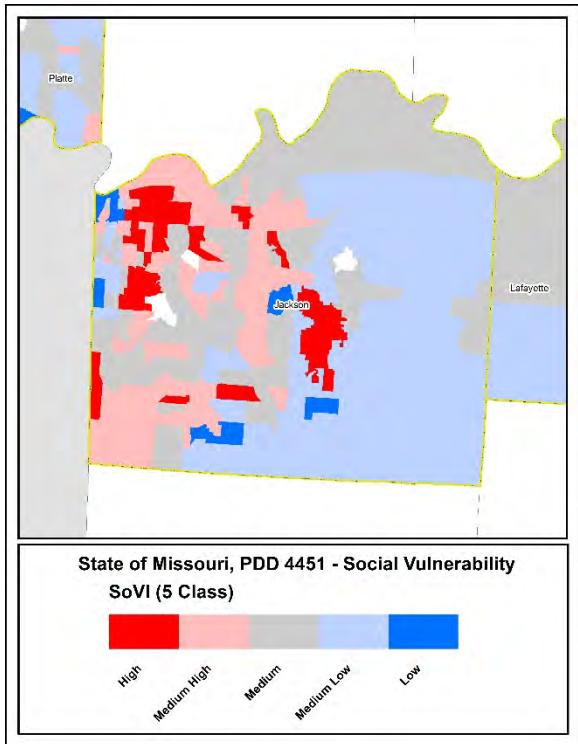
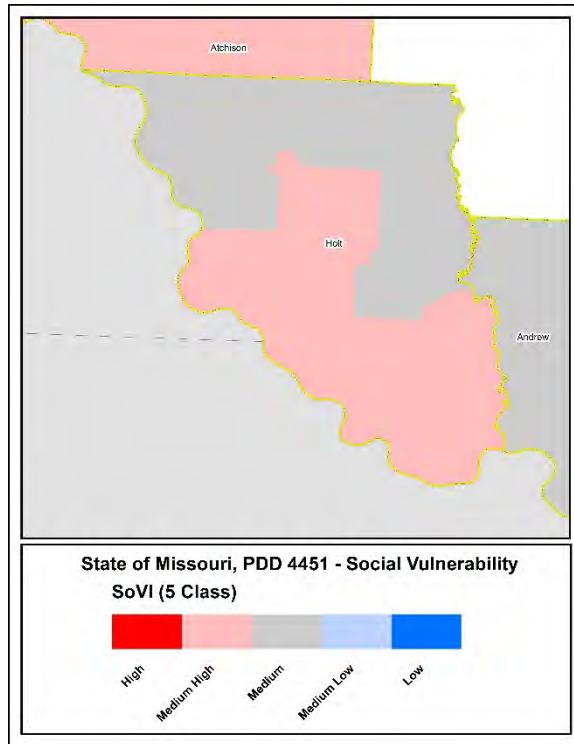
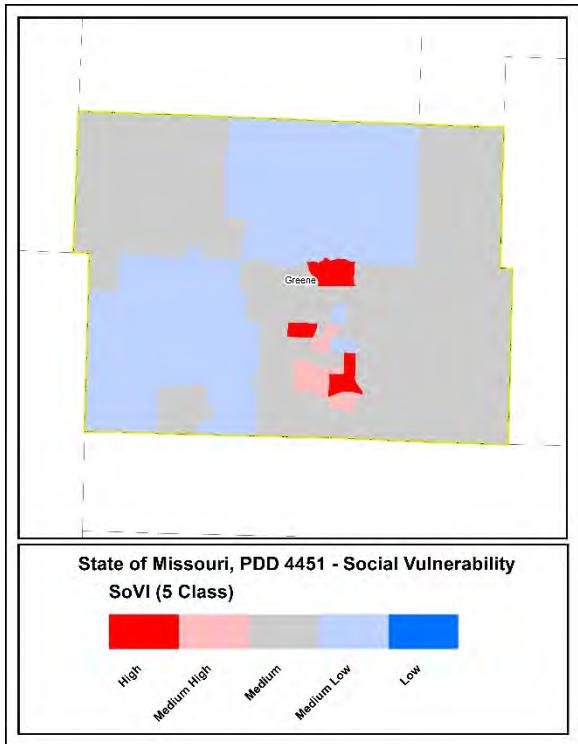


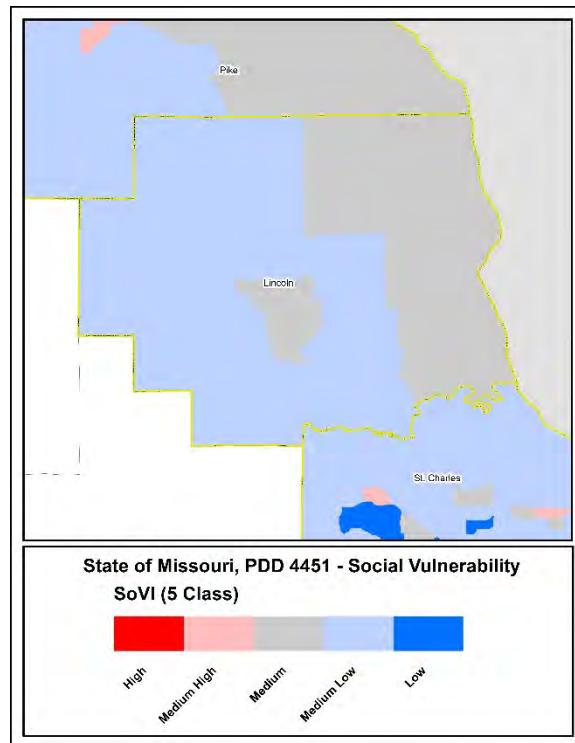
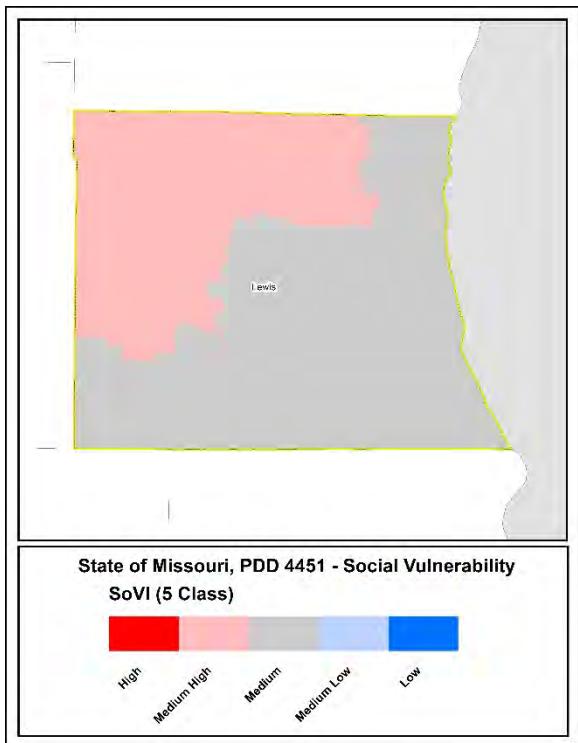
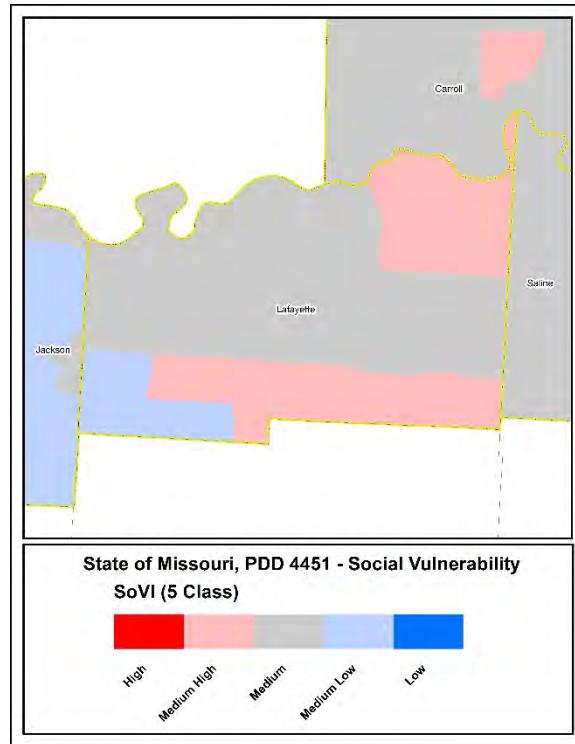
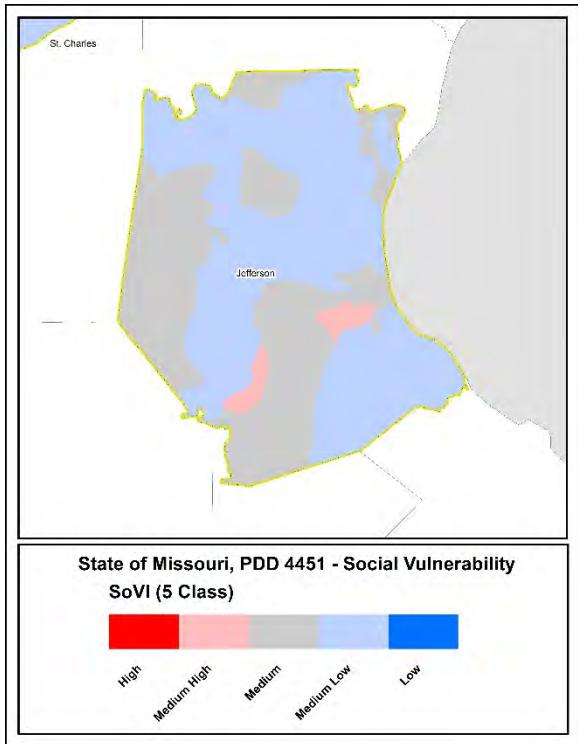


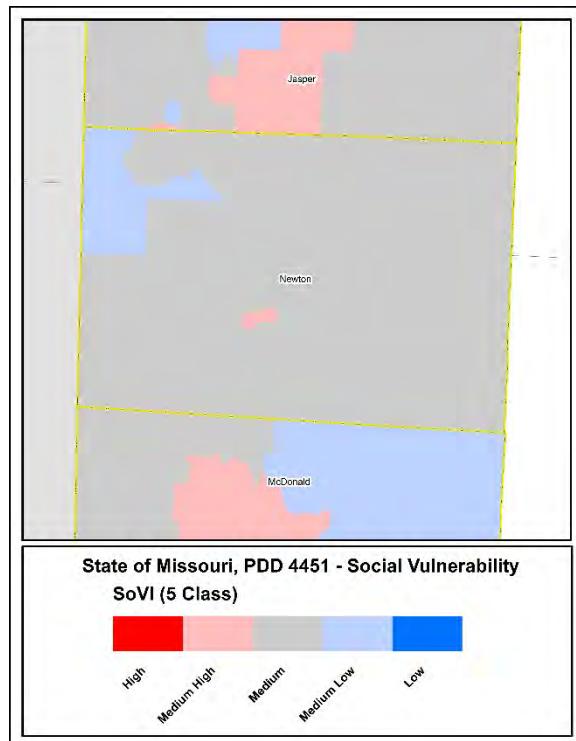
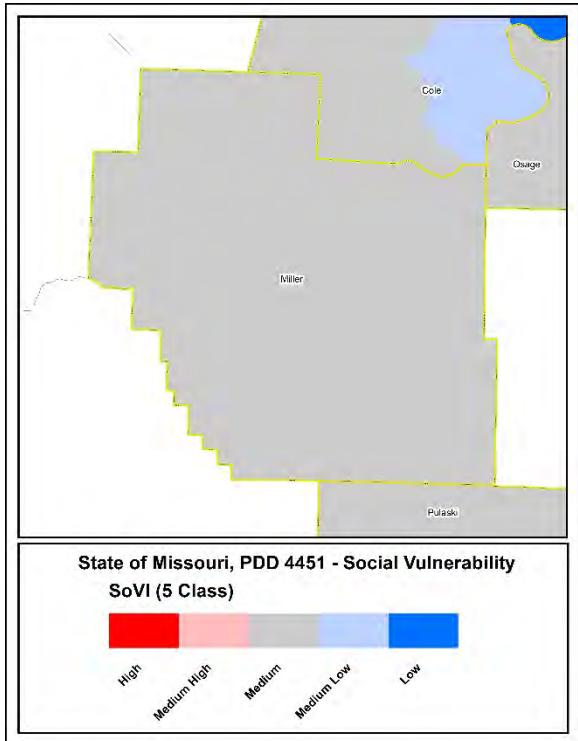
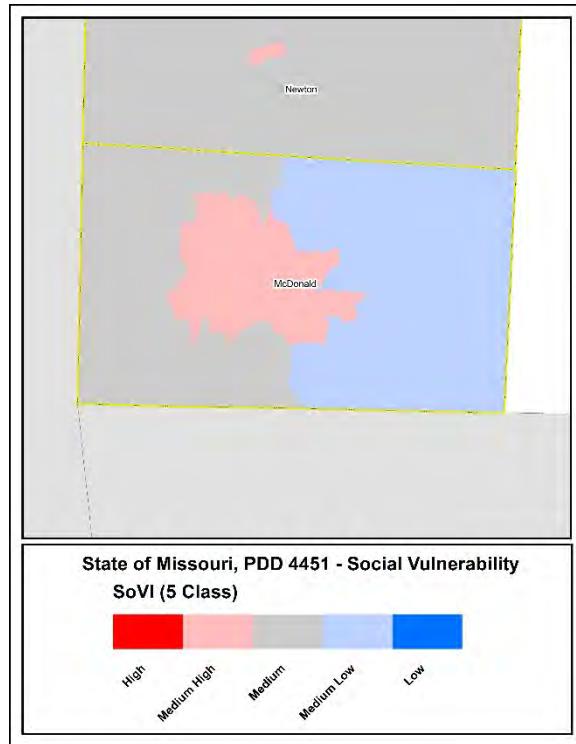
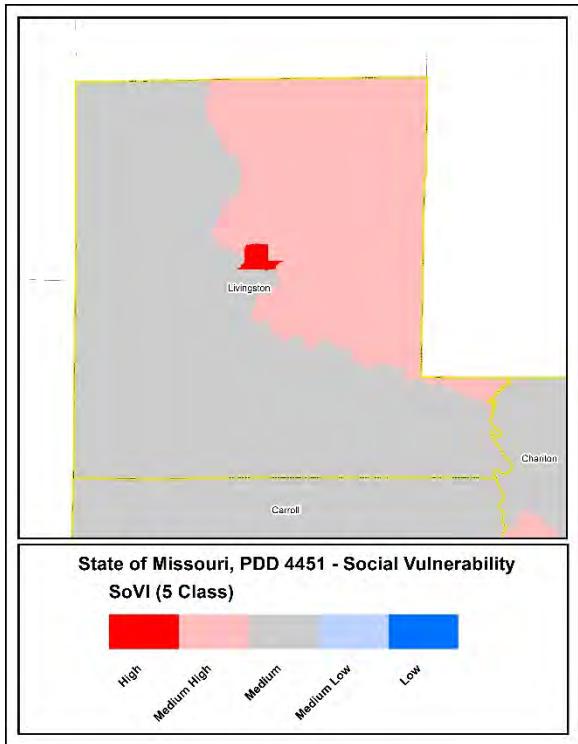
Appendix I: DR-4451 County Social Vulnerability

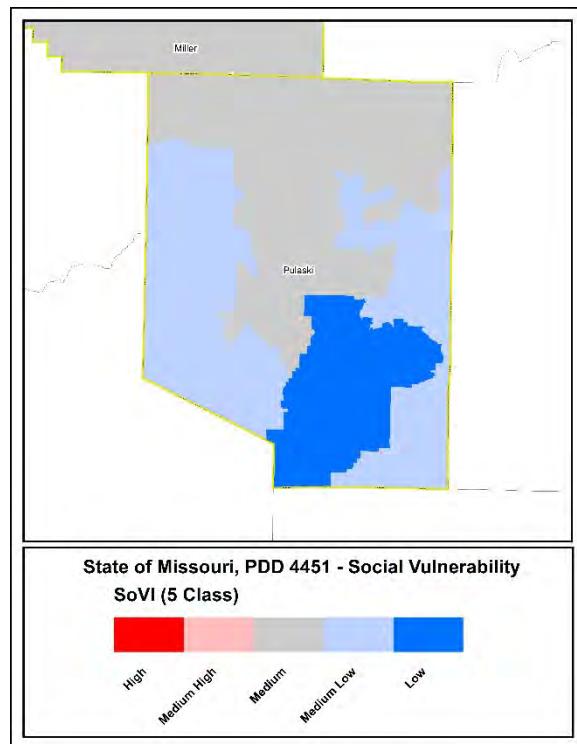
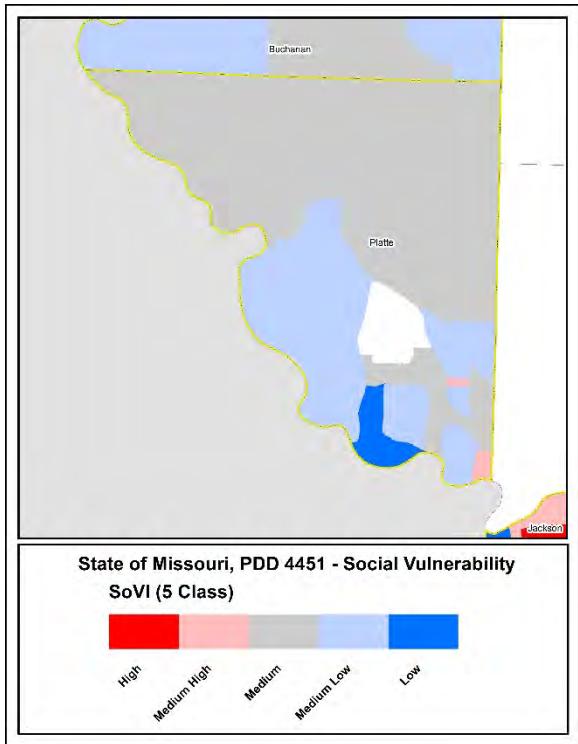
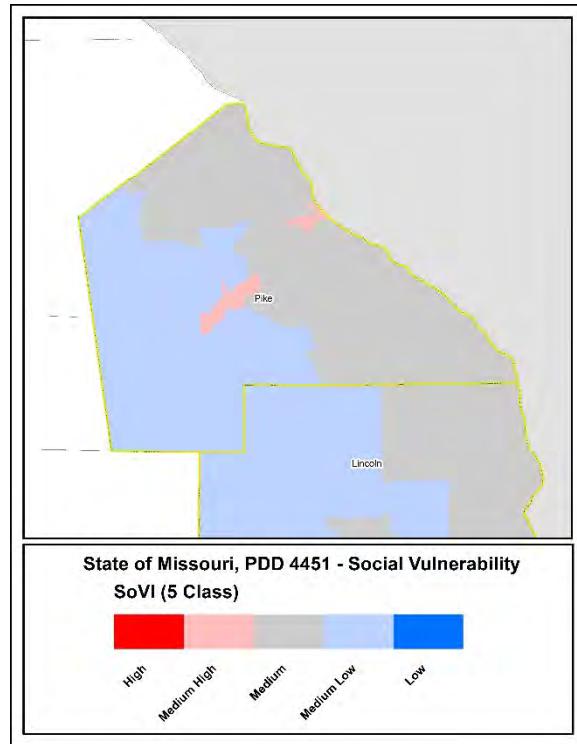
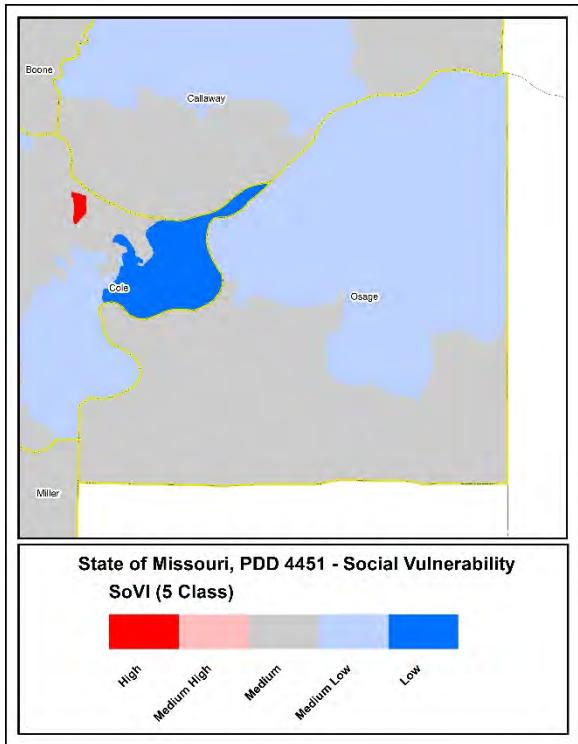


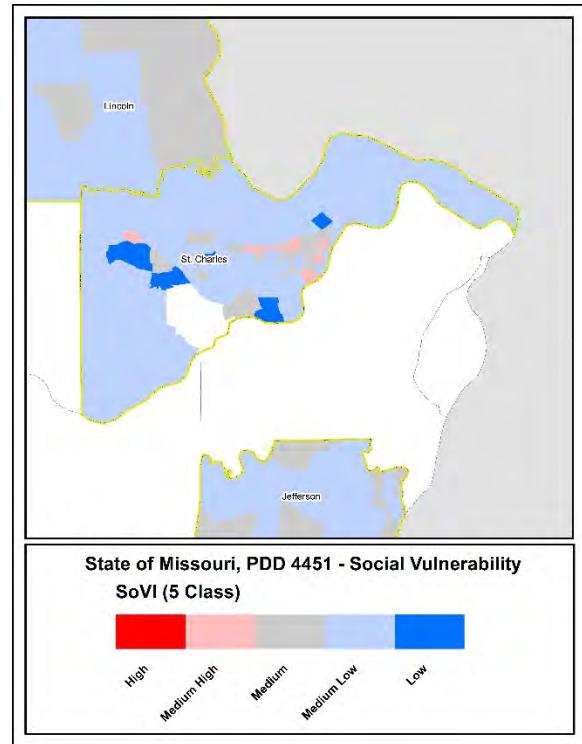
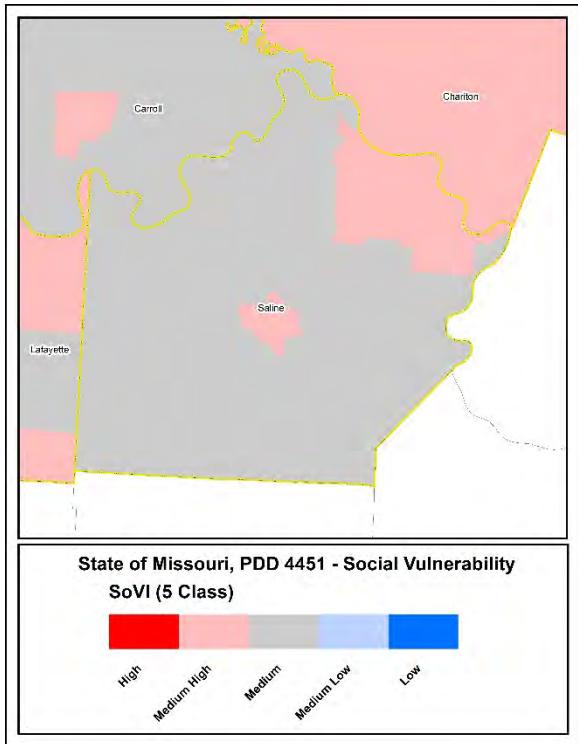




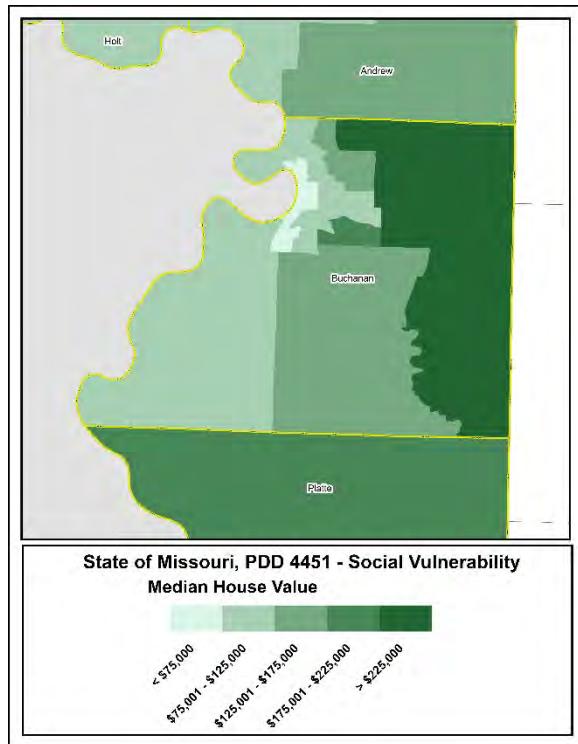
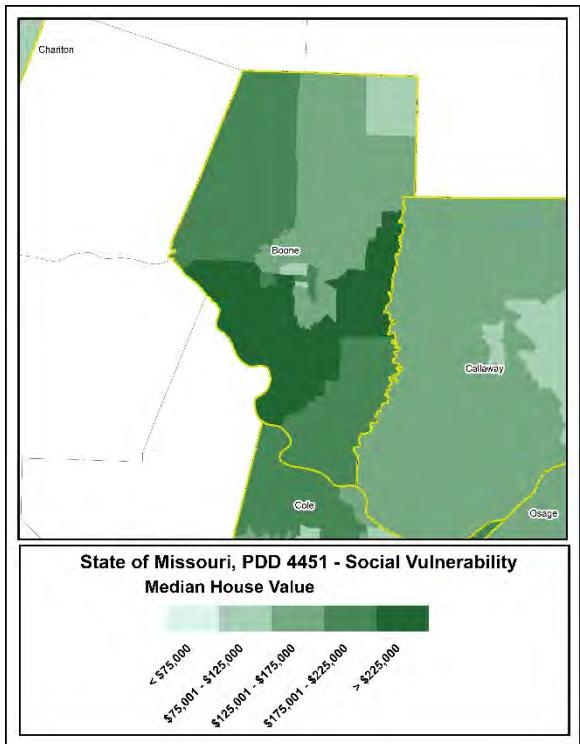
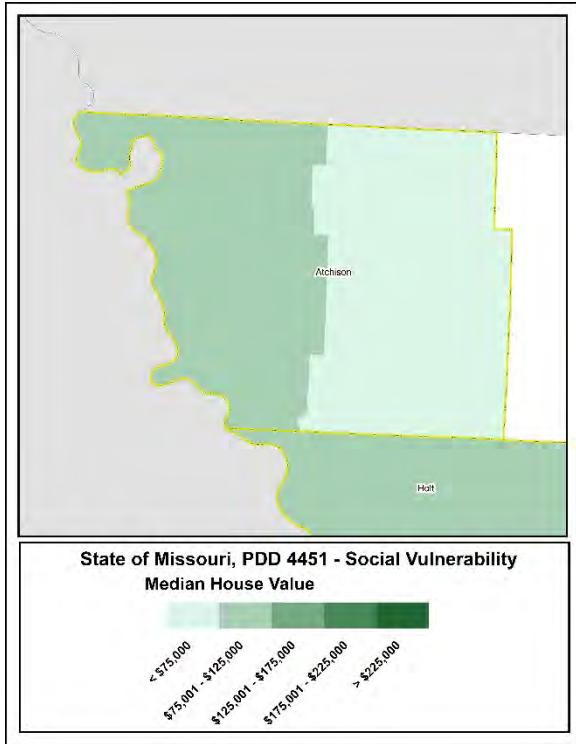
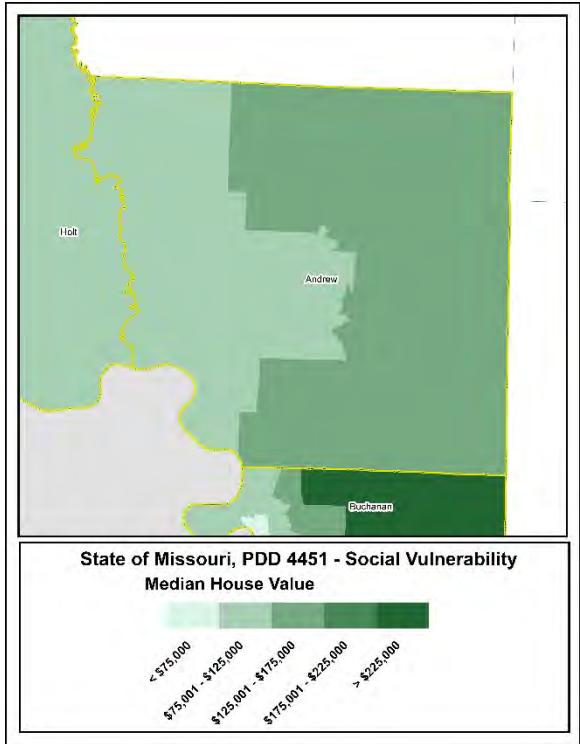


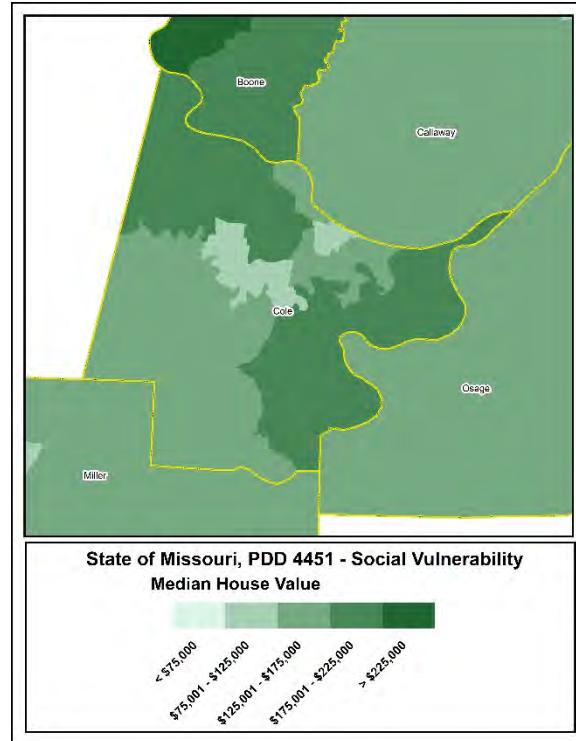
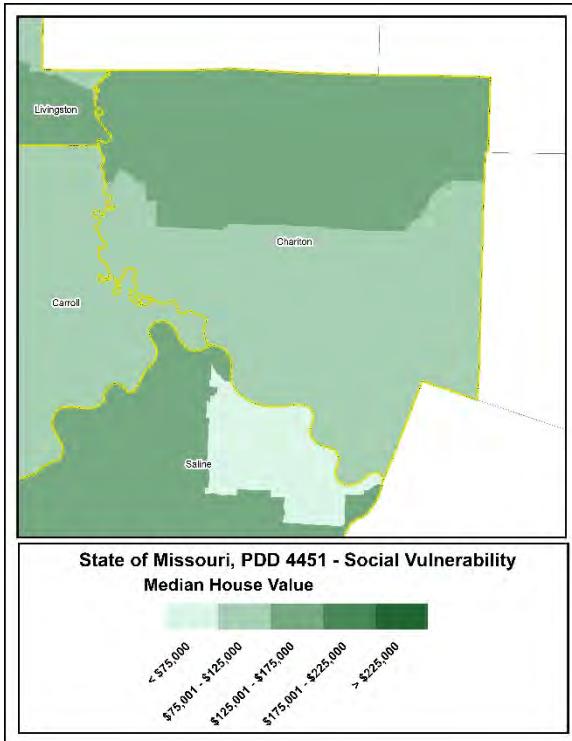
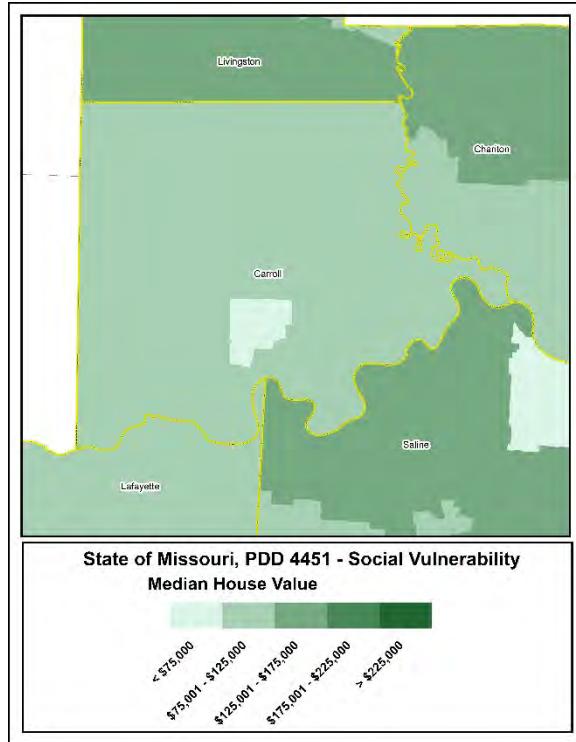
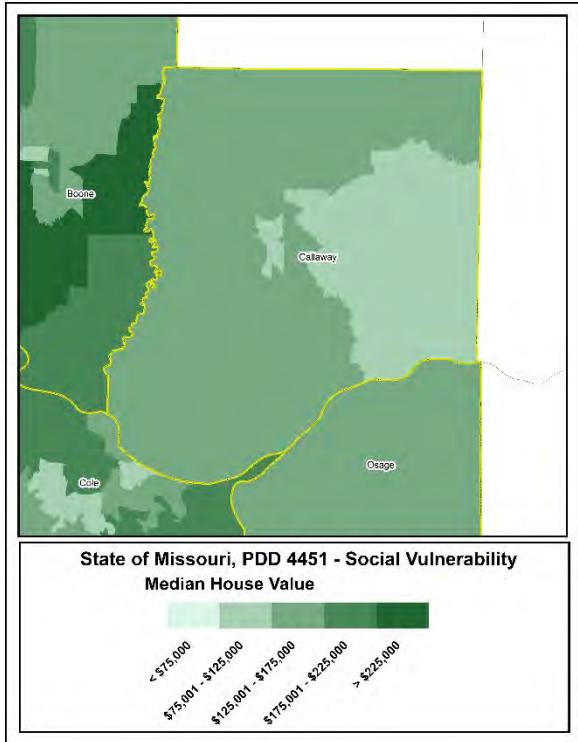


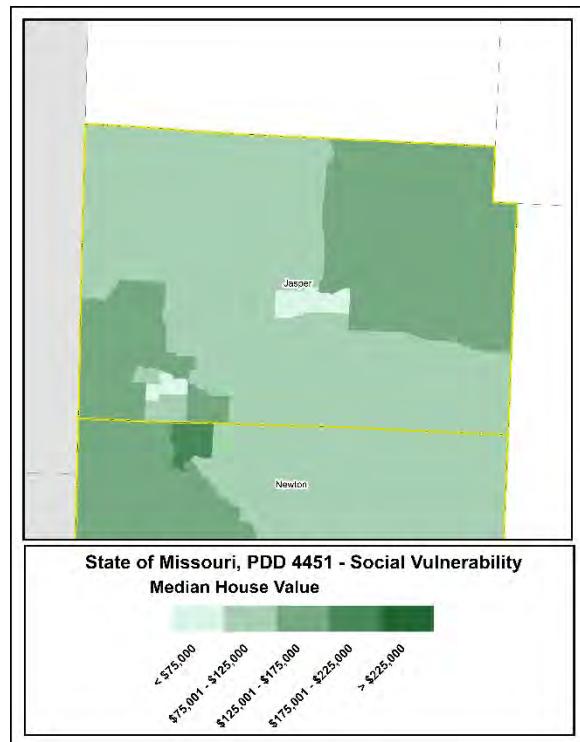
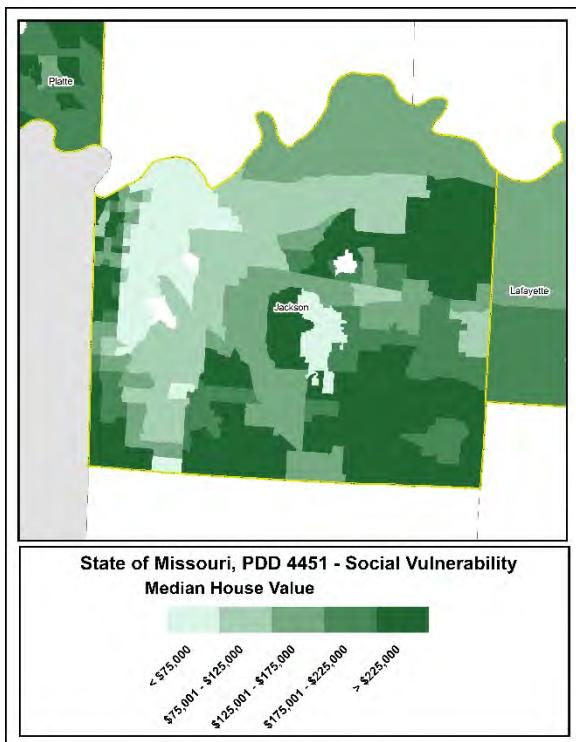
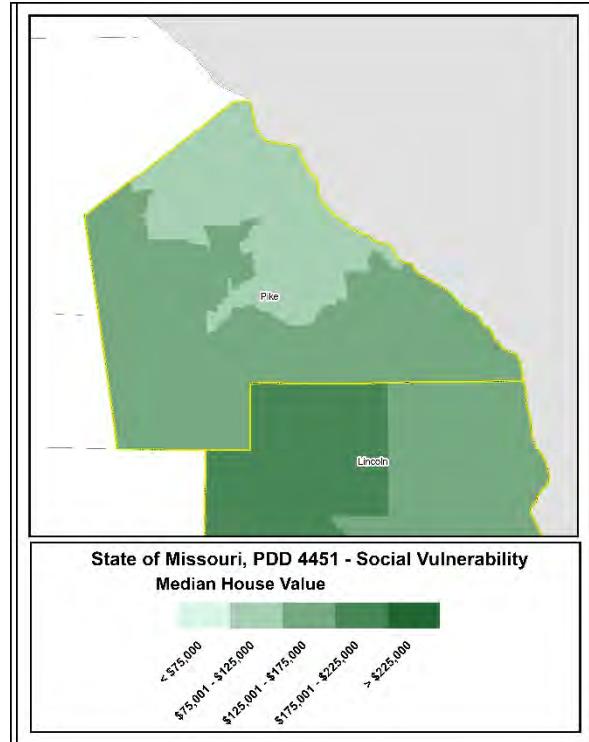
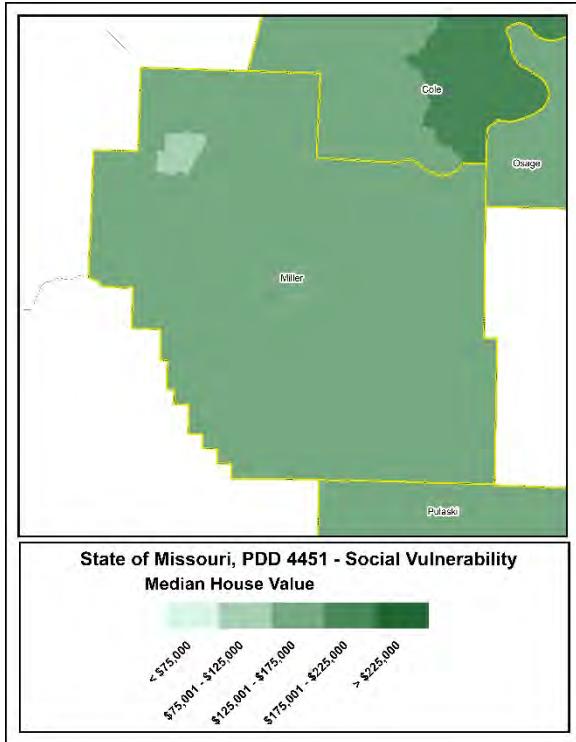


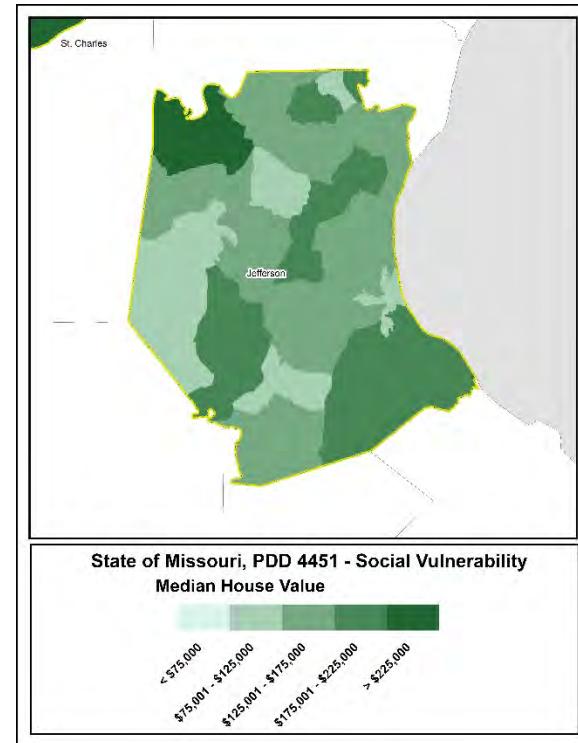
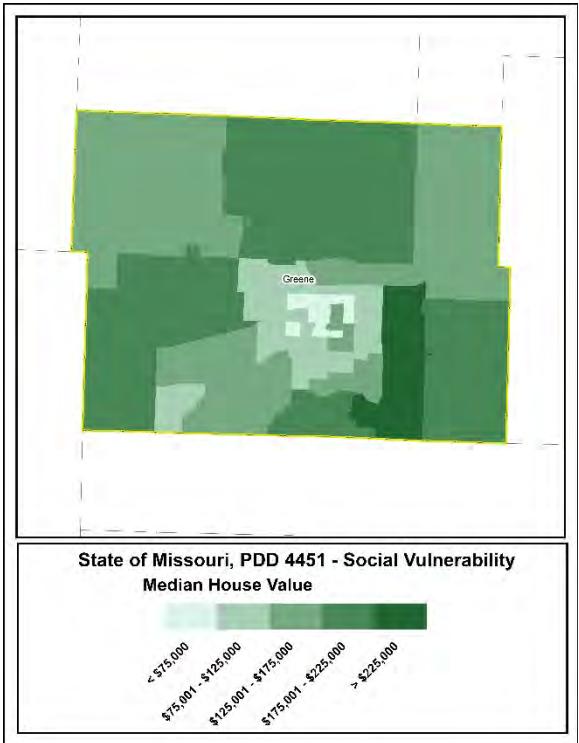
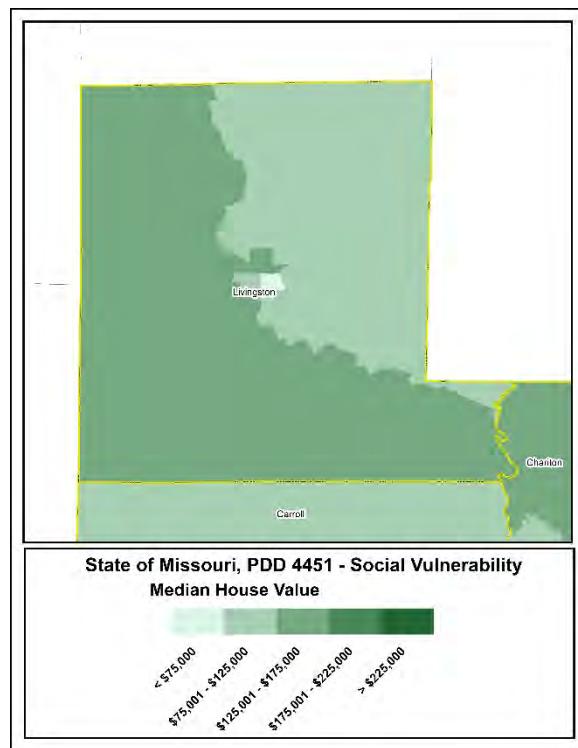
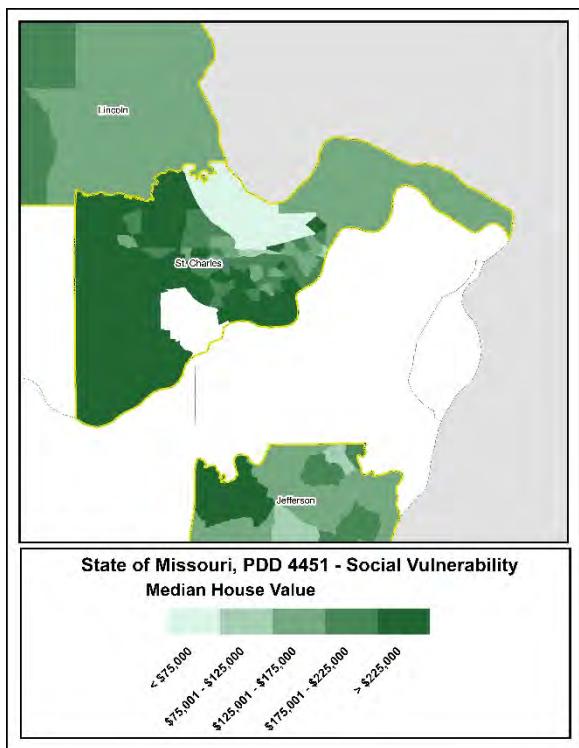


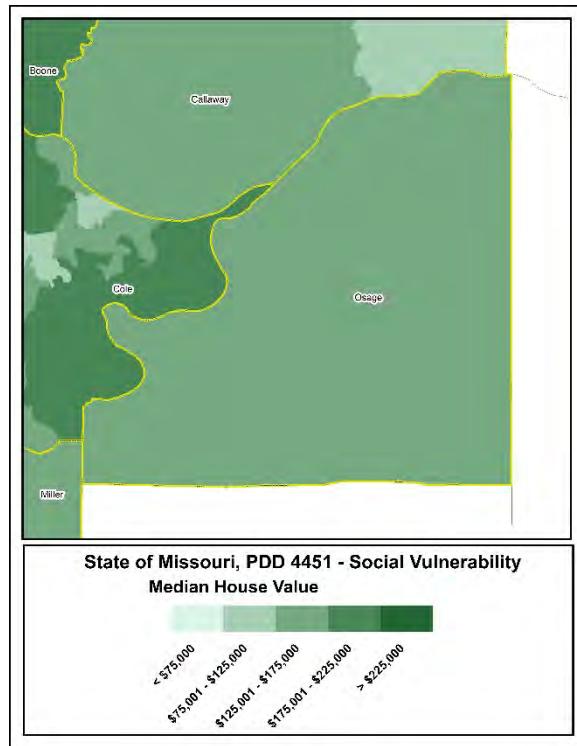
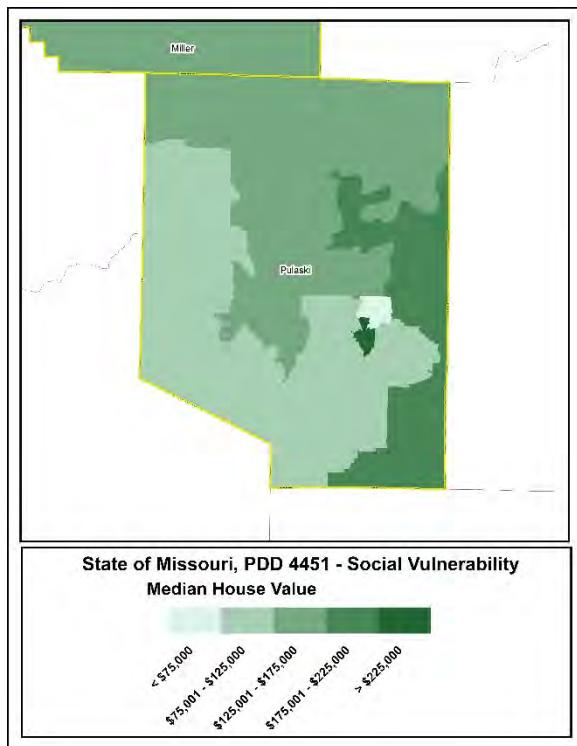
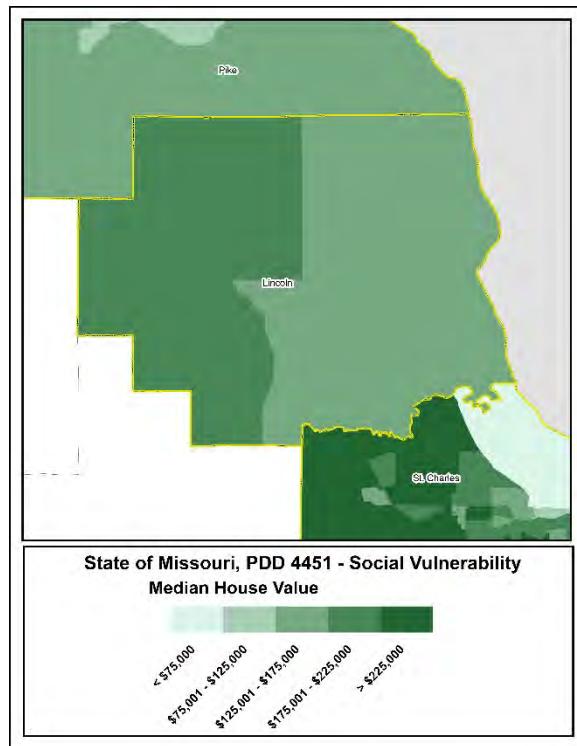
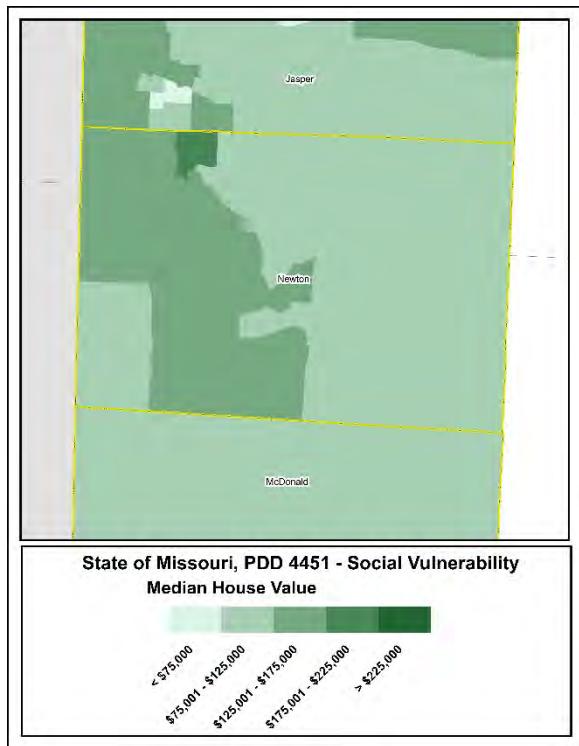
Appendix J: DR-4451 County Median House Value

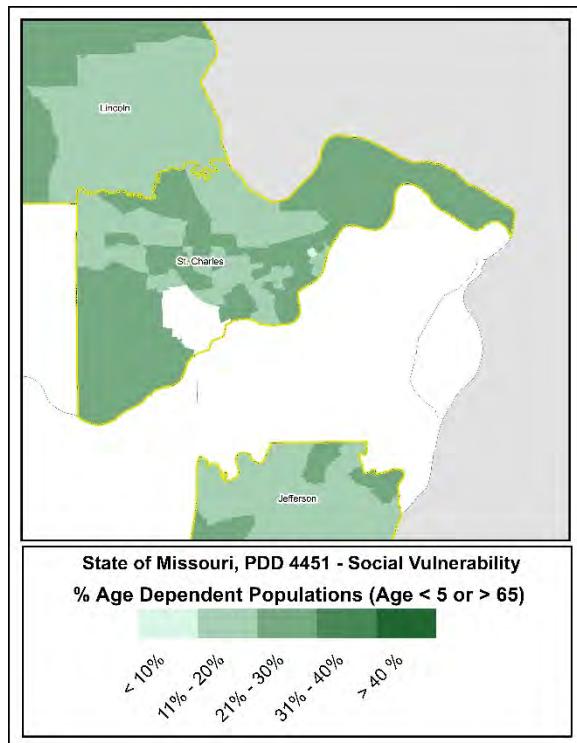
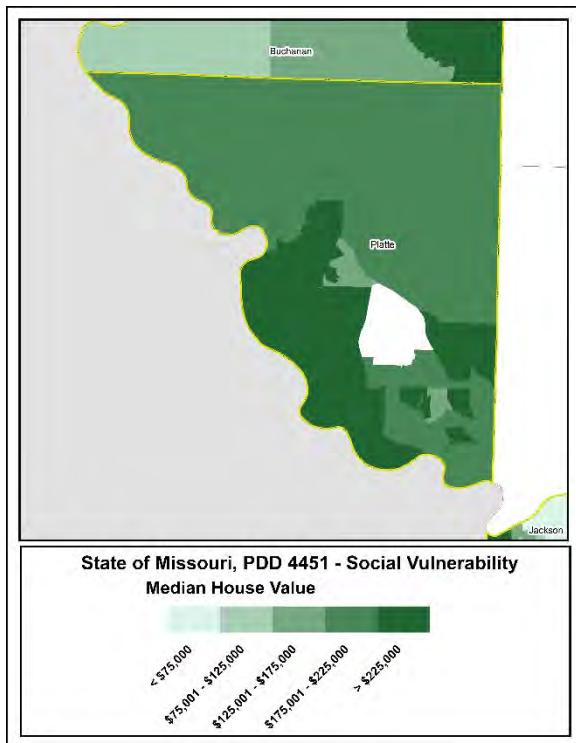
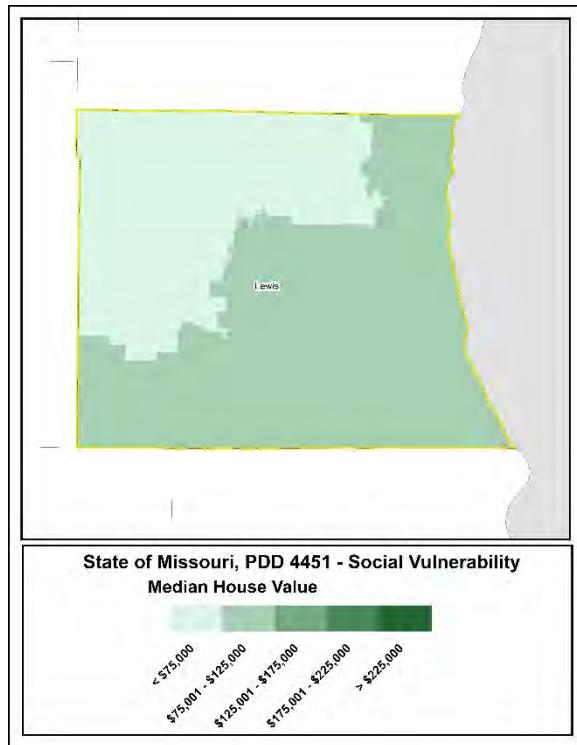
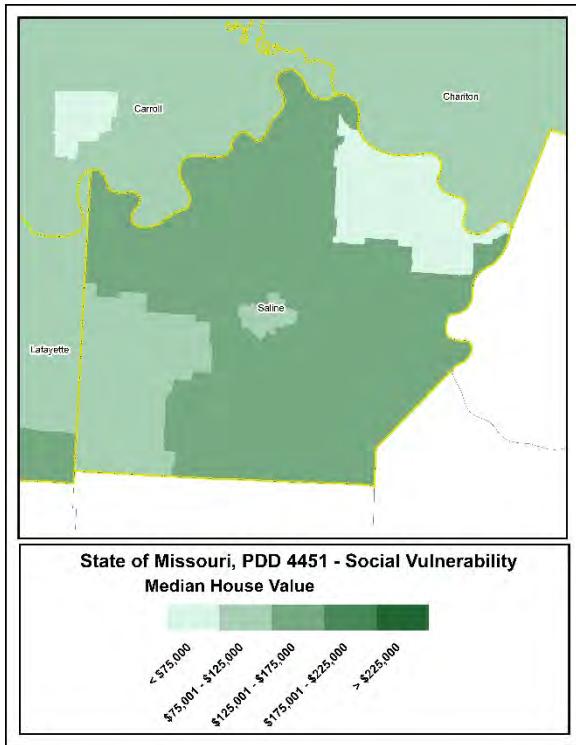




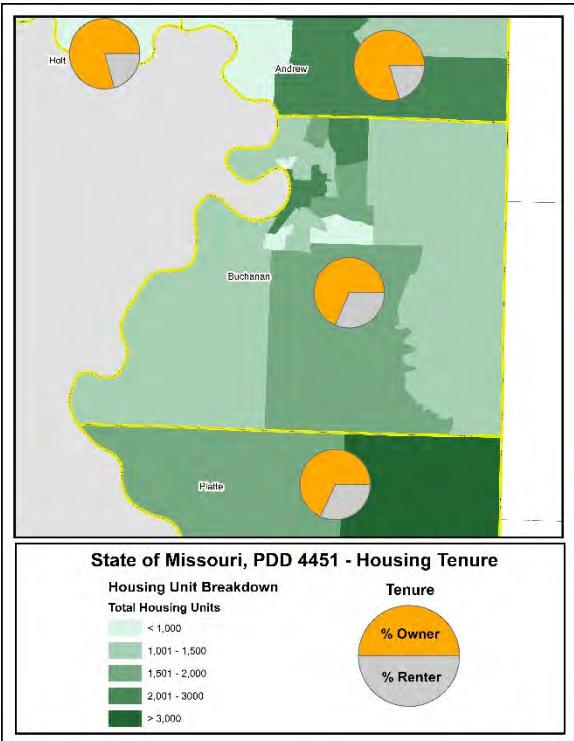
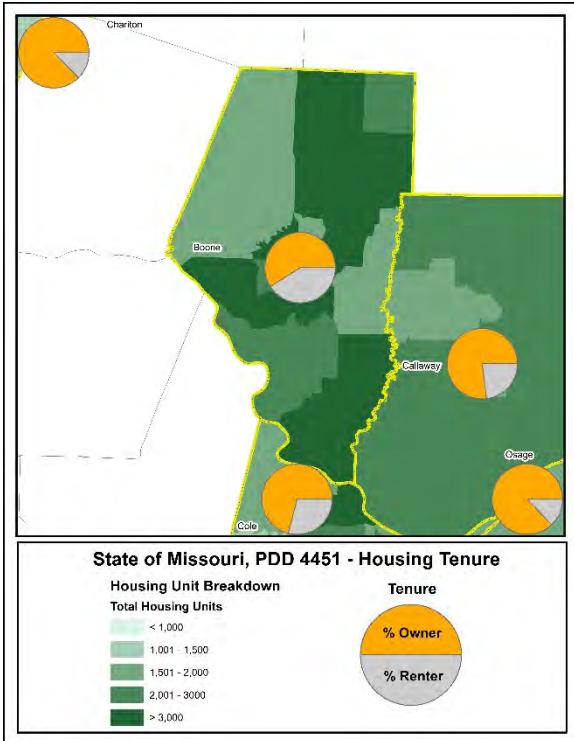
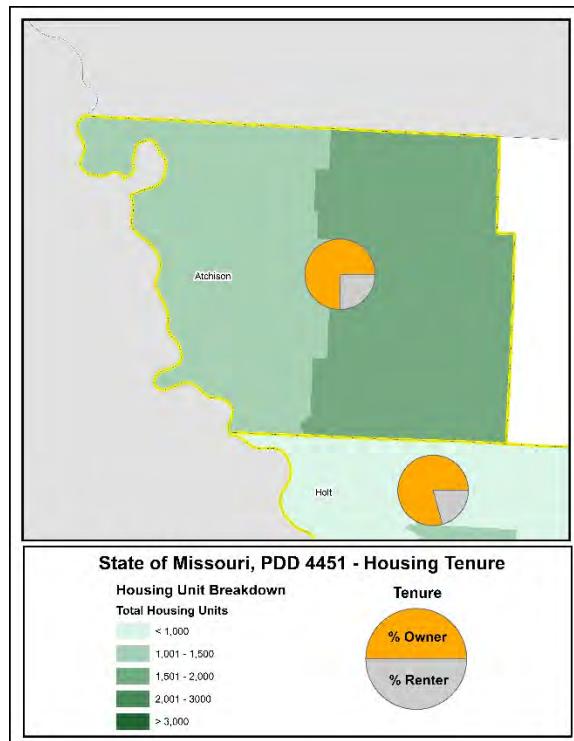
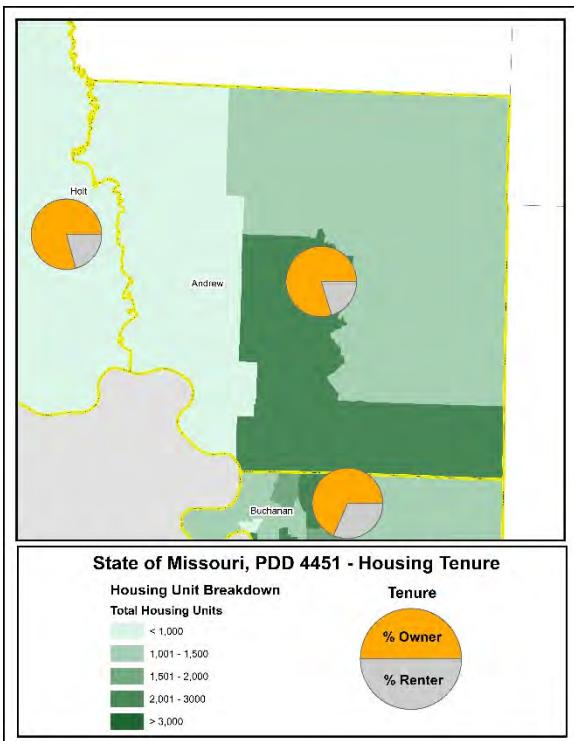


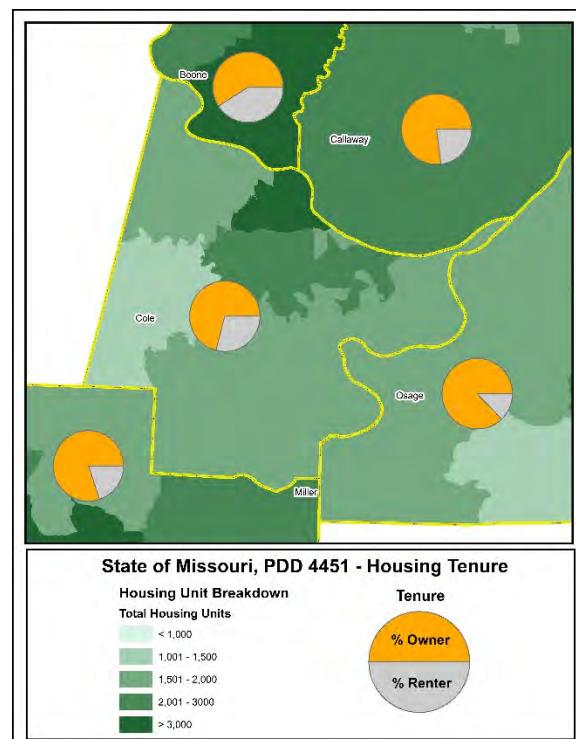
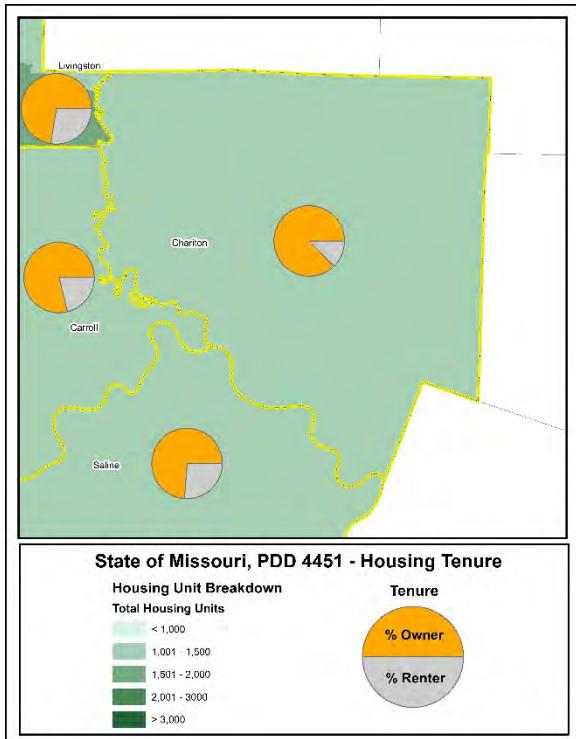
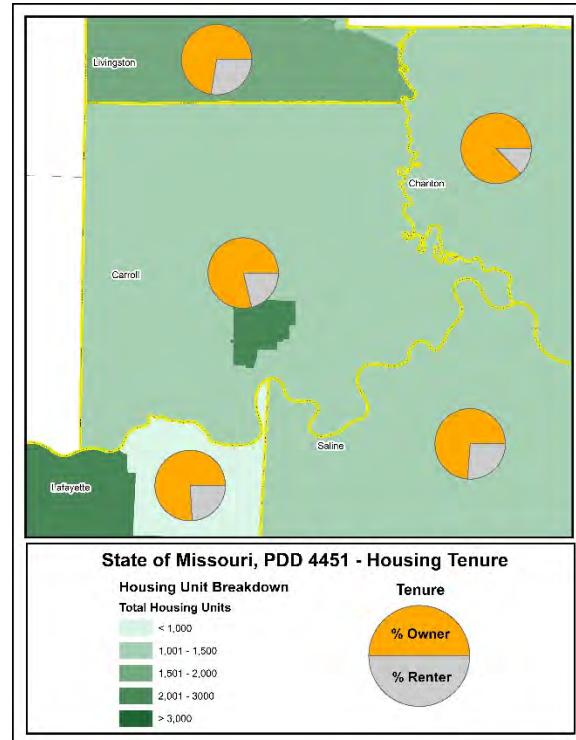
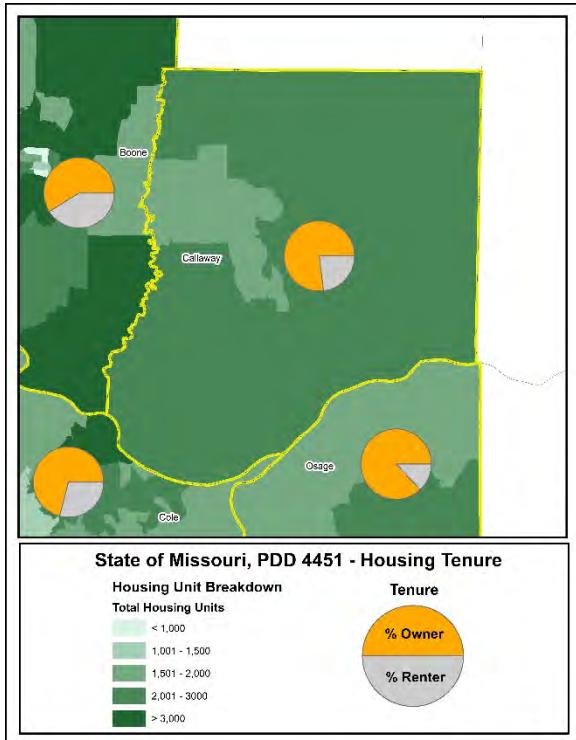


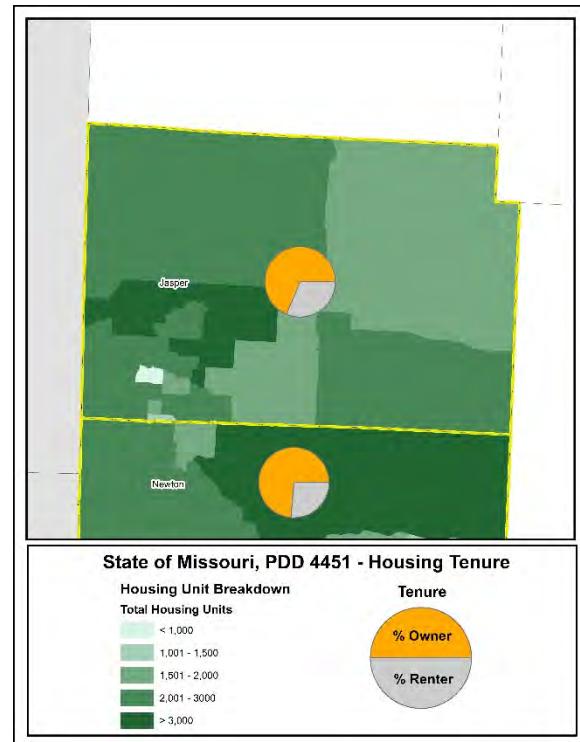
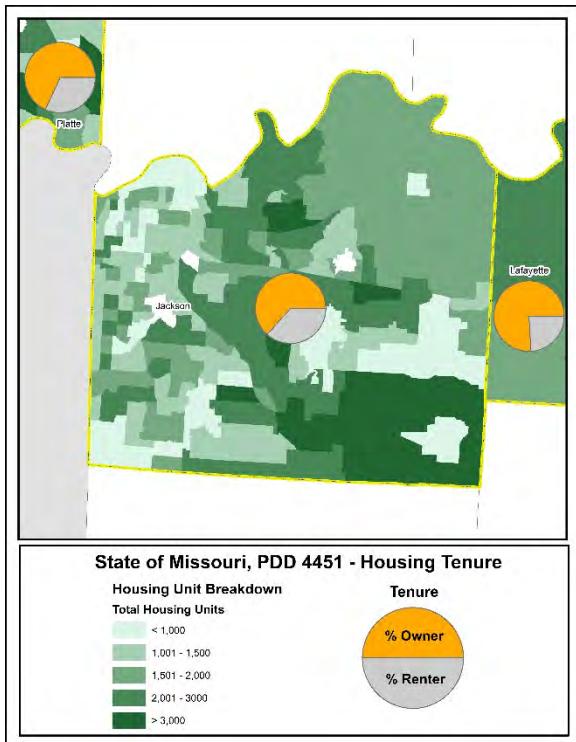
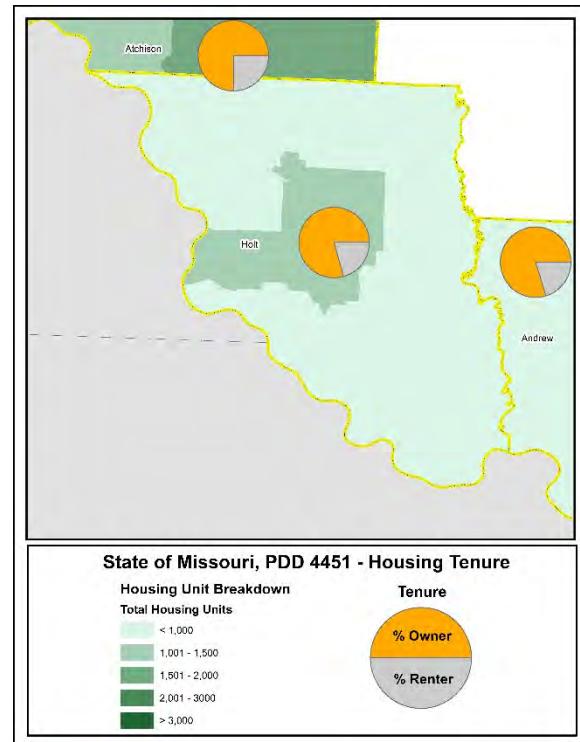
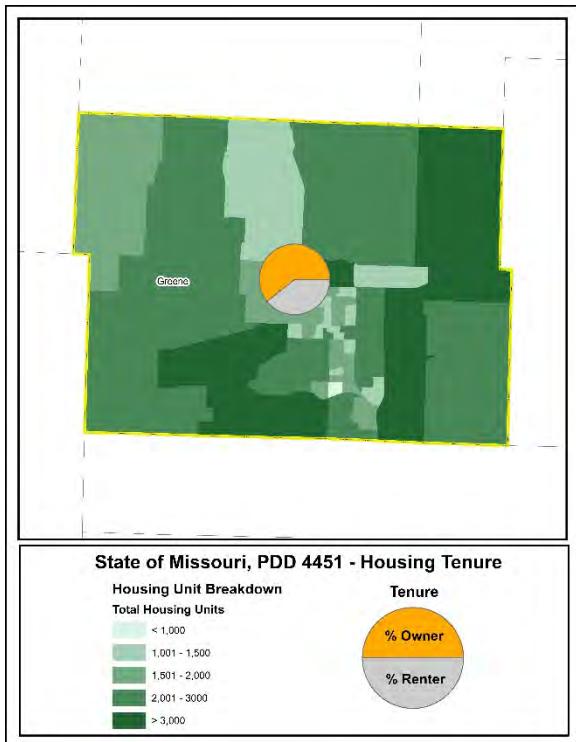


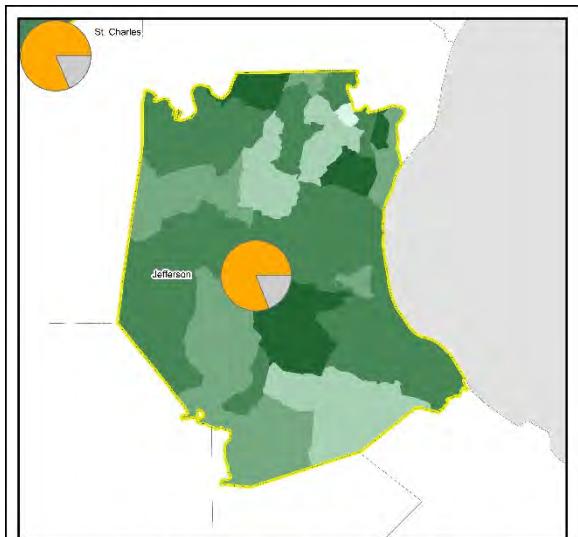


Appendix K: DR-4451 County Housing Tenure

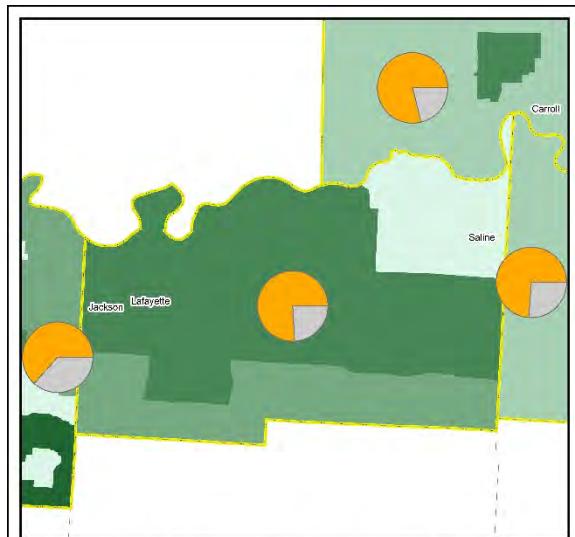




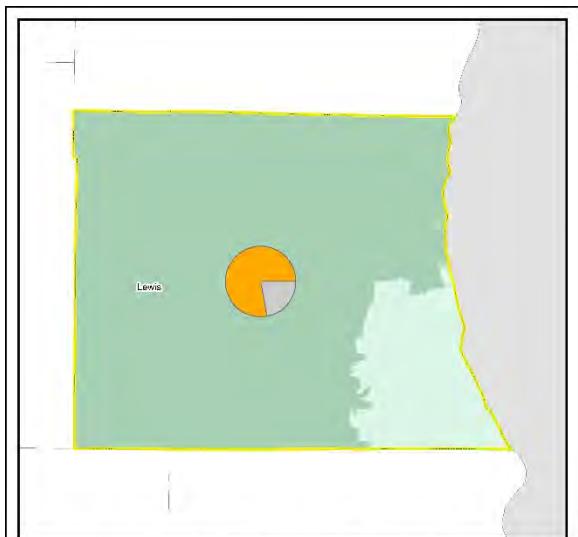
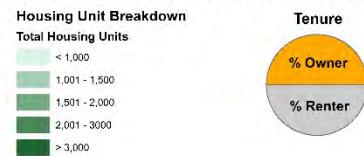




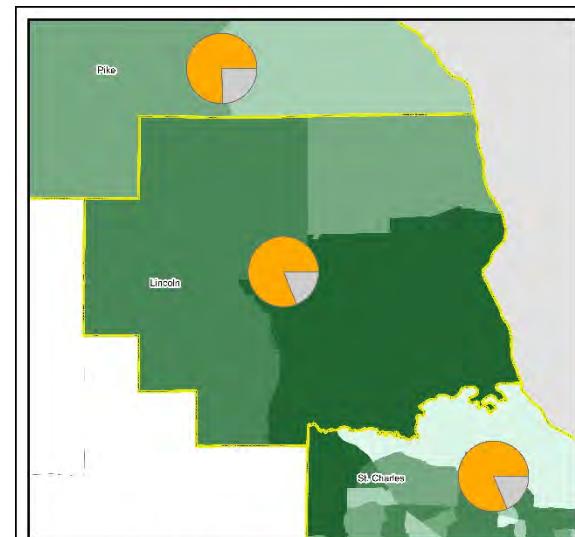
State of Missouri, PDD 4451 - Housing Tenure



State of Missouri, PDD 4451 - Housing Tenure

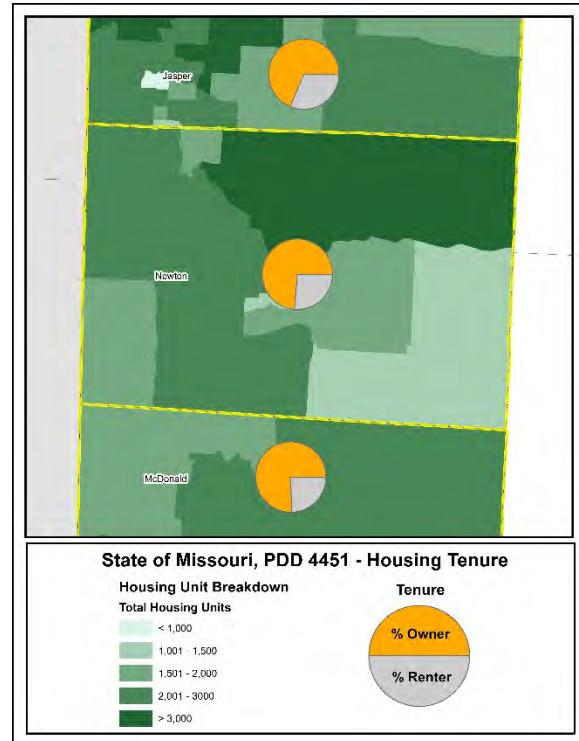
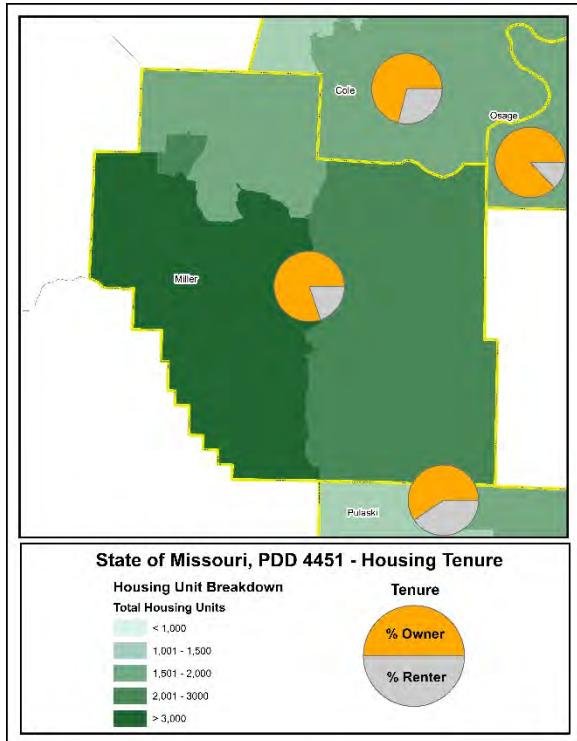
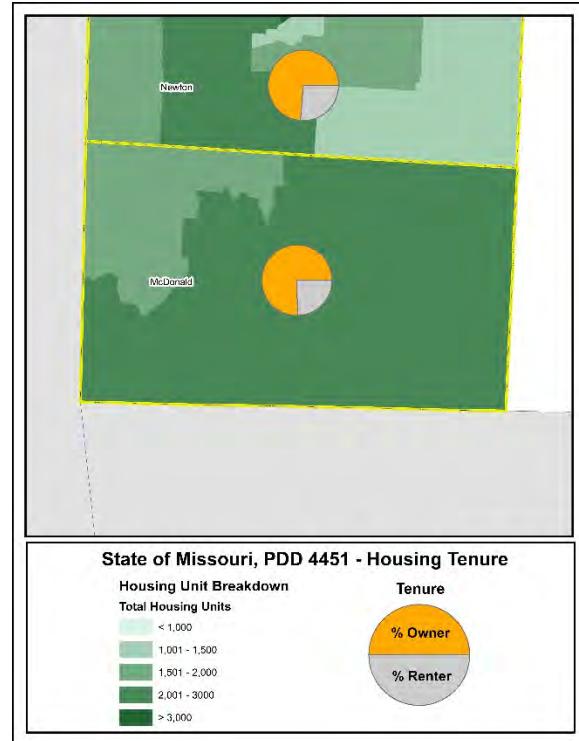
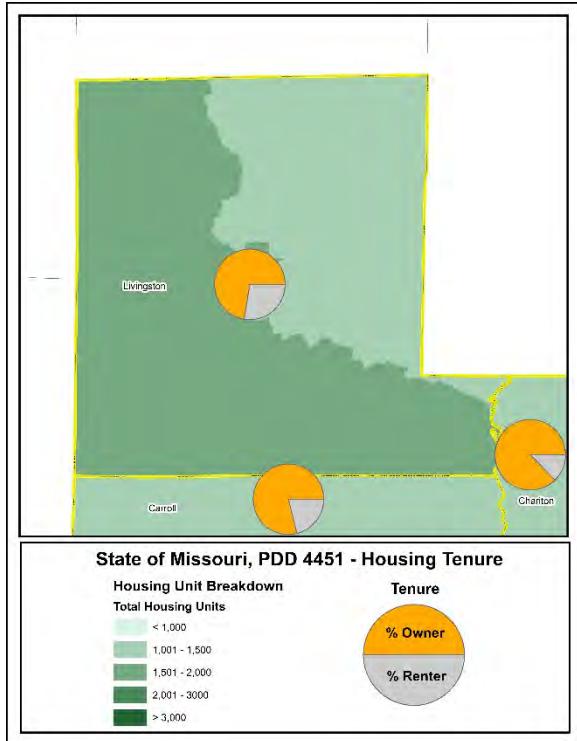


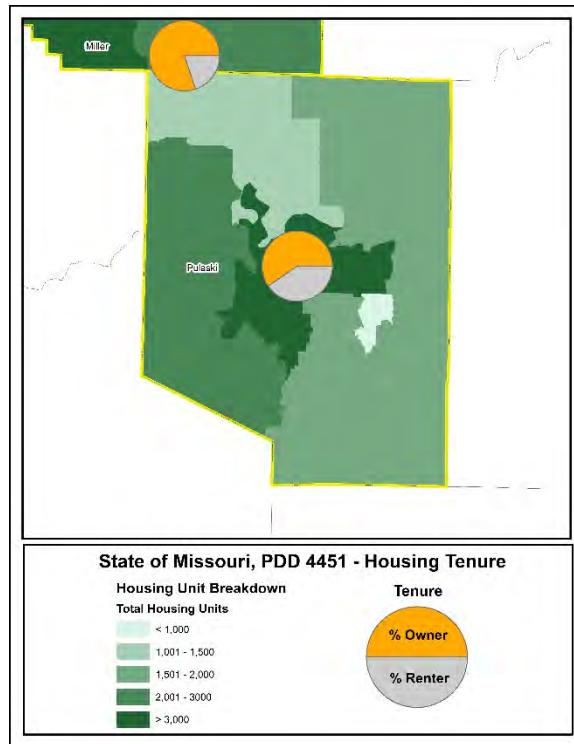
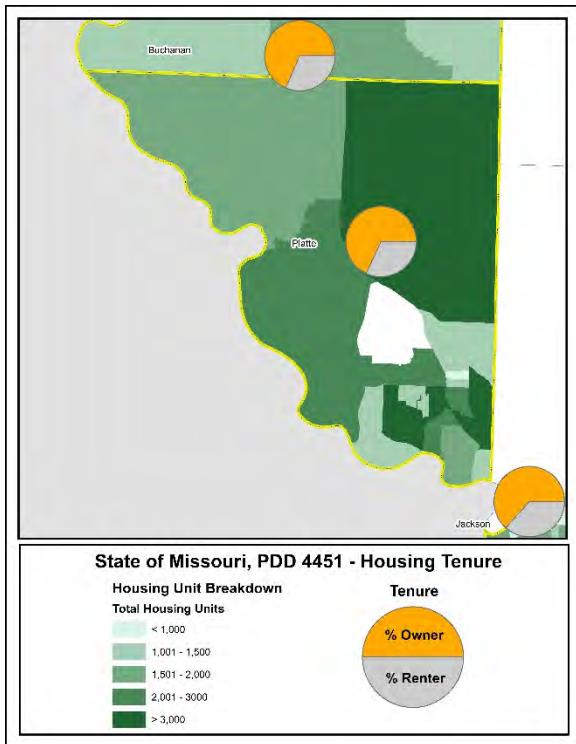
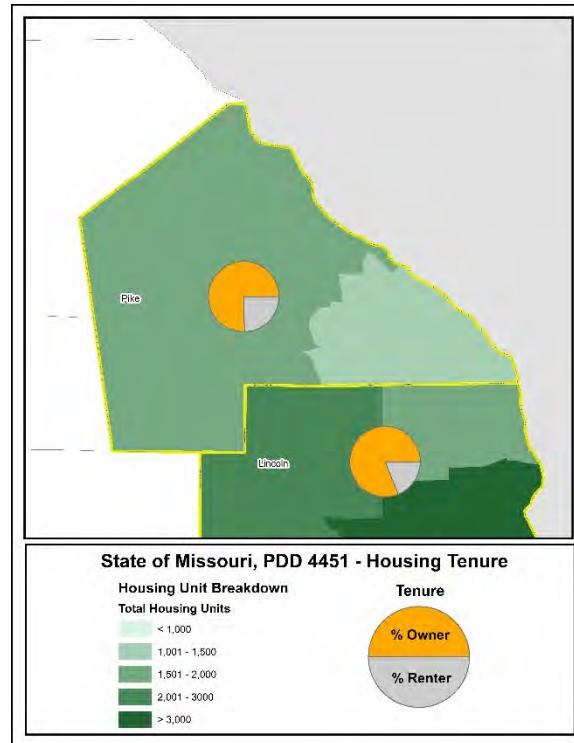
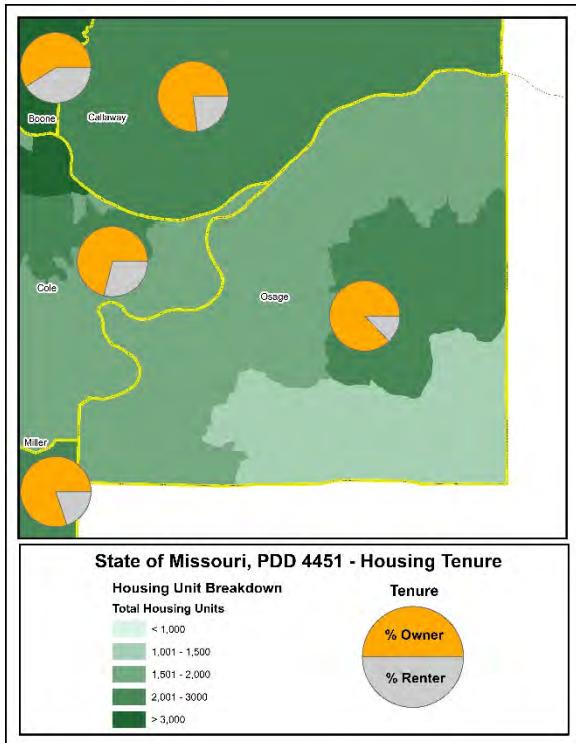
State of Missouri, PDD 4451 - Housing Tenure

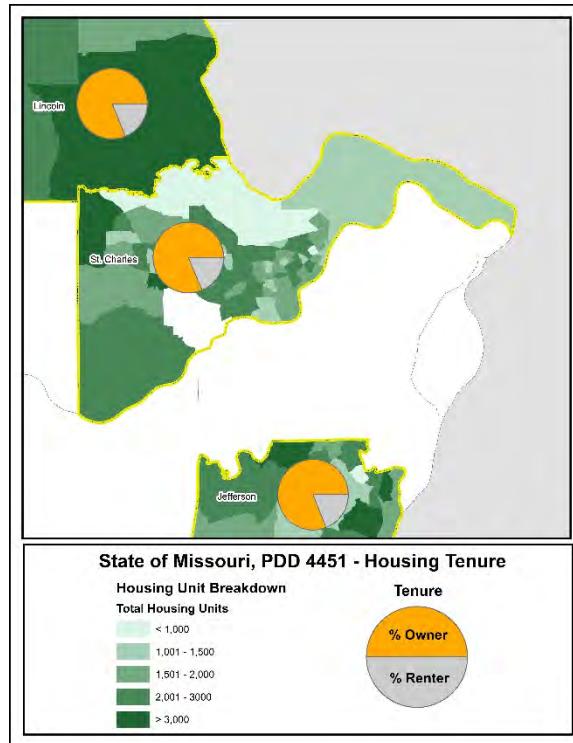
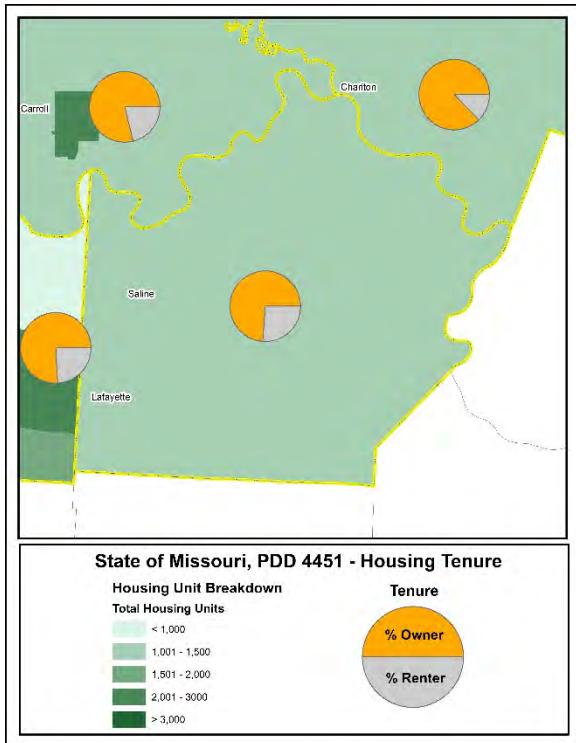


State of Missouri, PDD 4451 - Housing Tenure

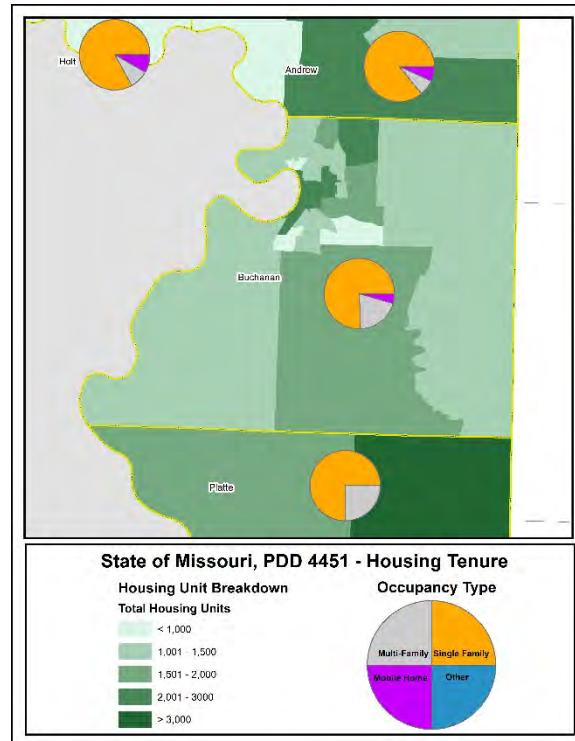
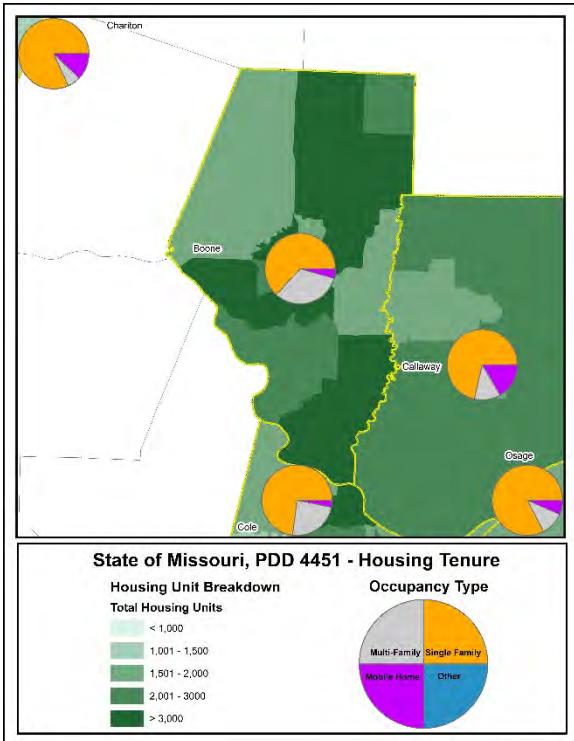
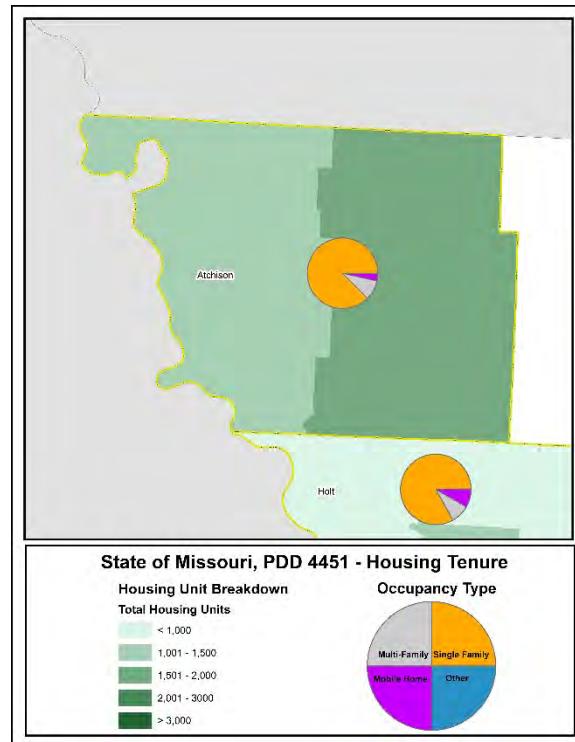
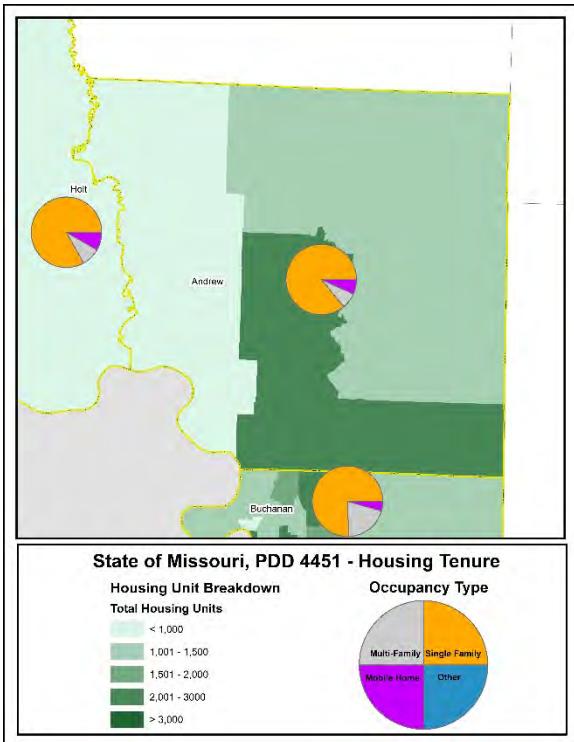


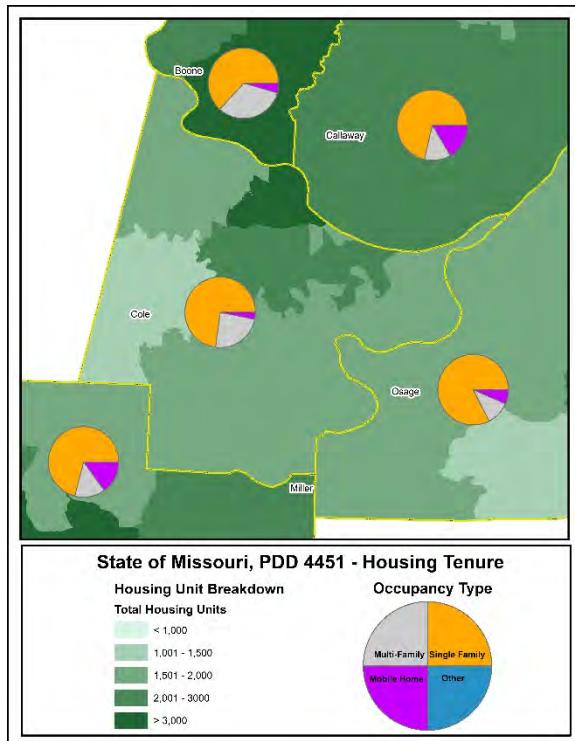
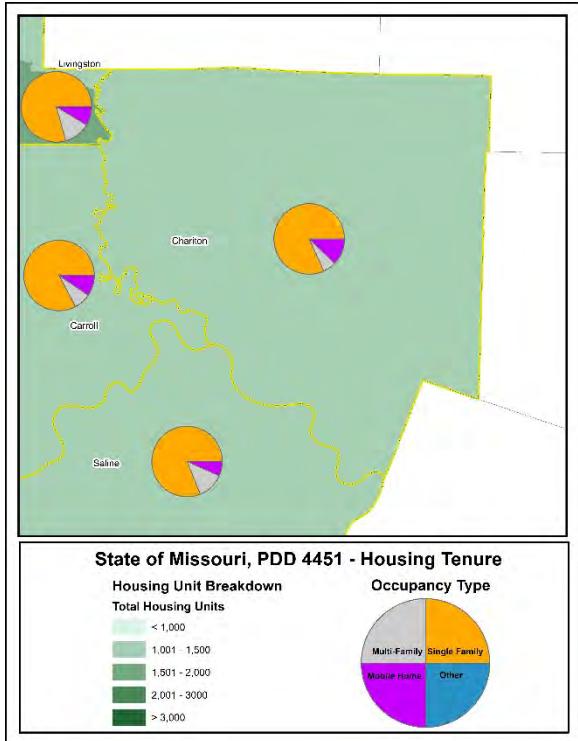
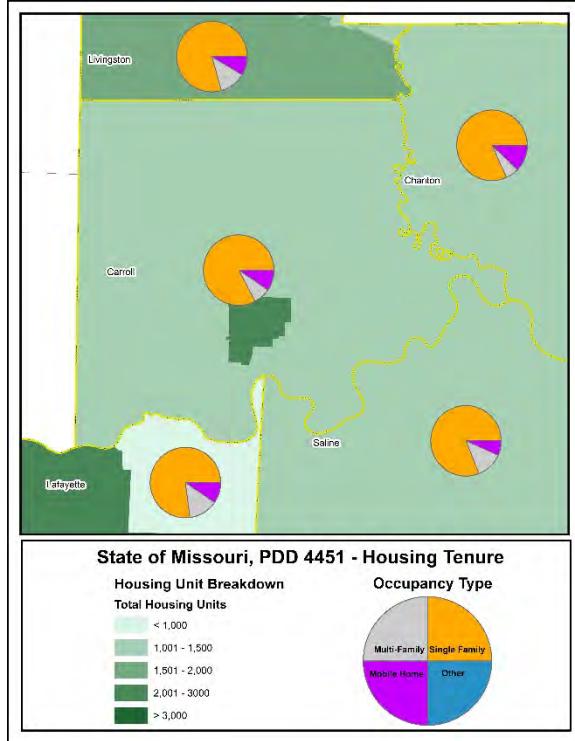
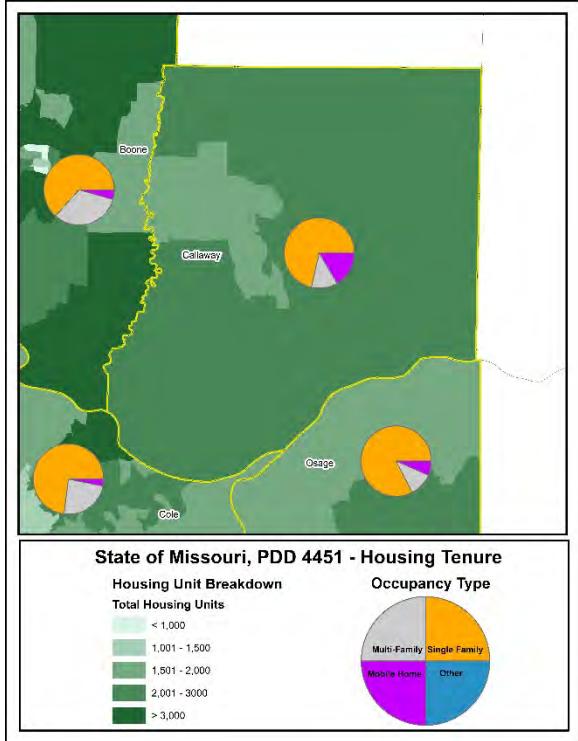


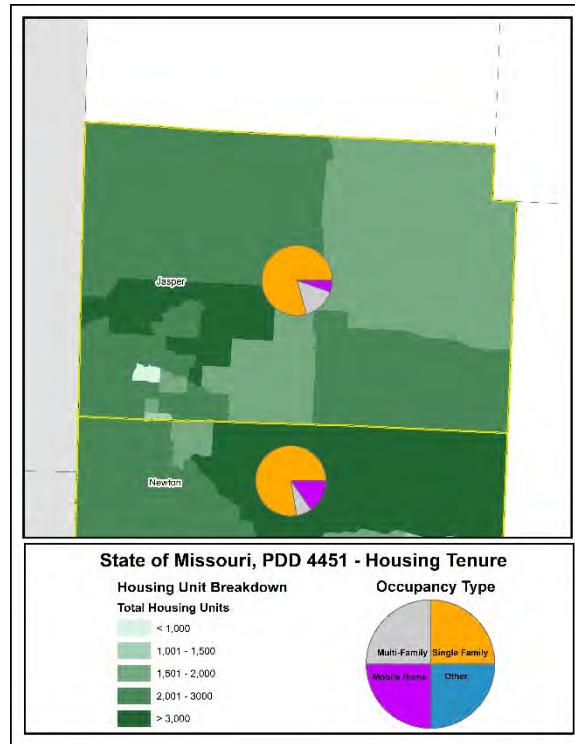
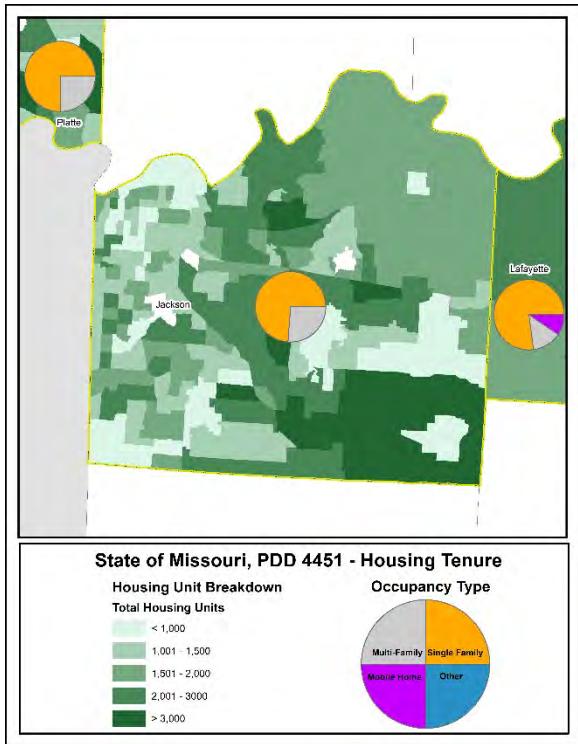
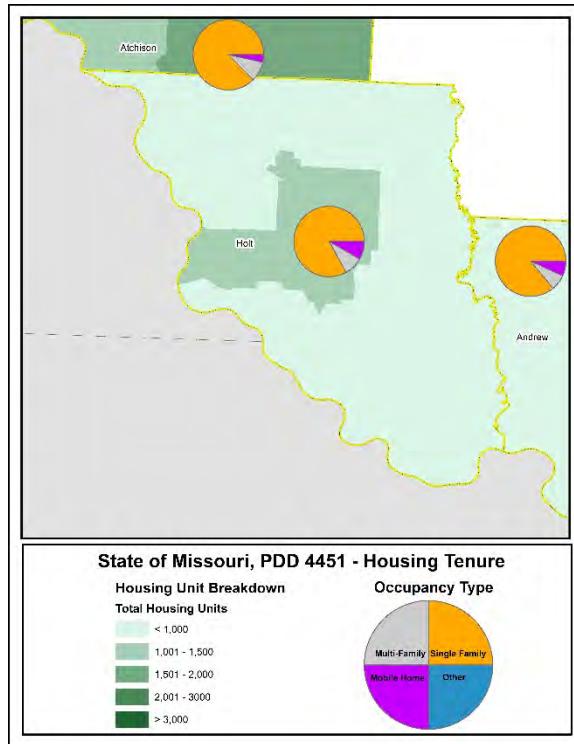
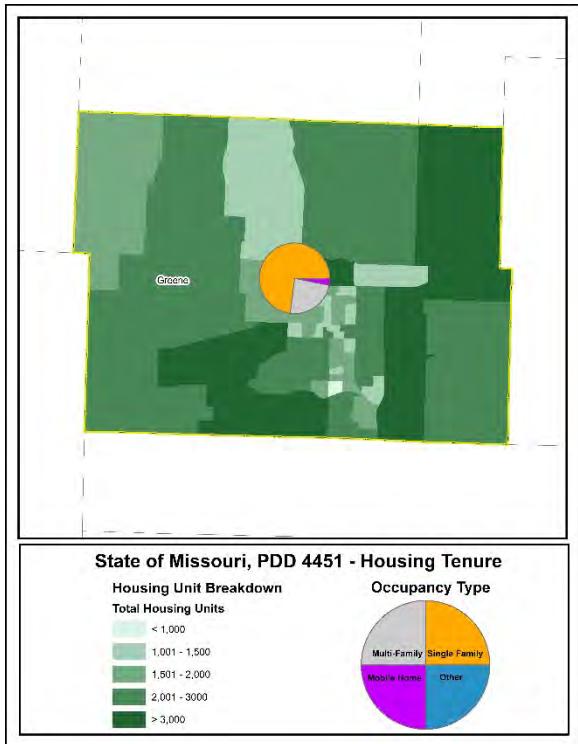


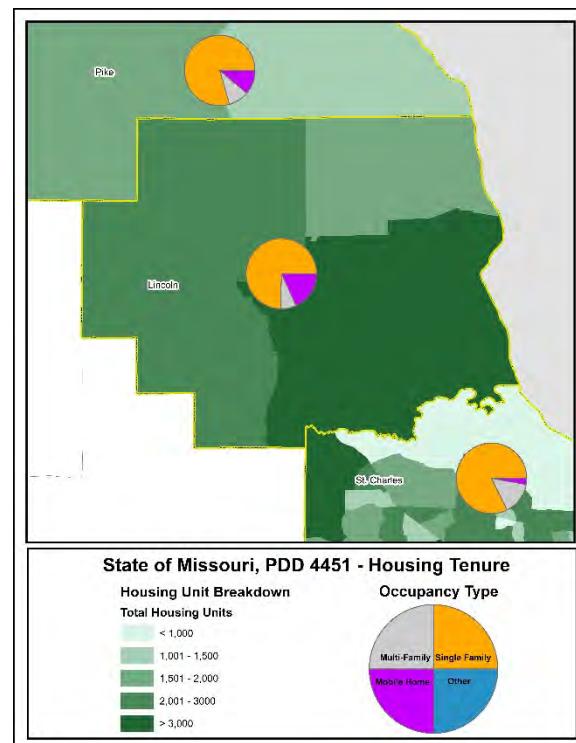
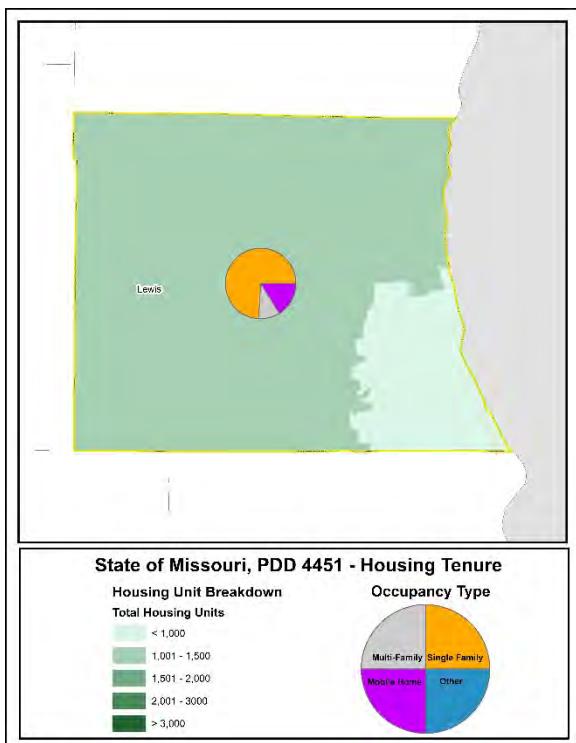
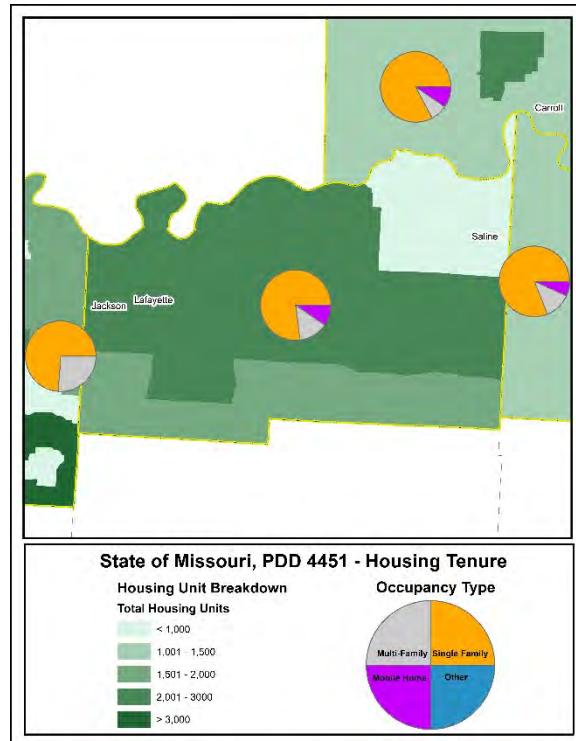
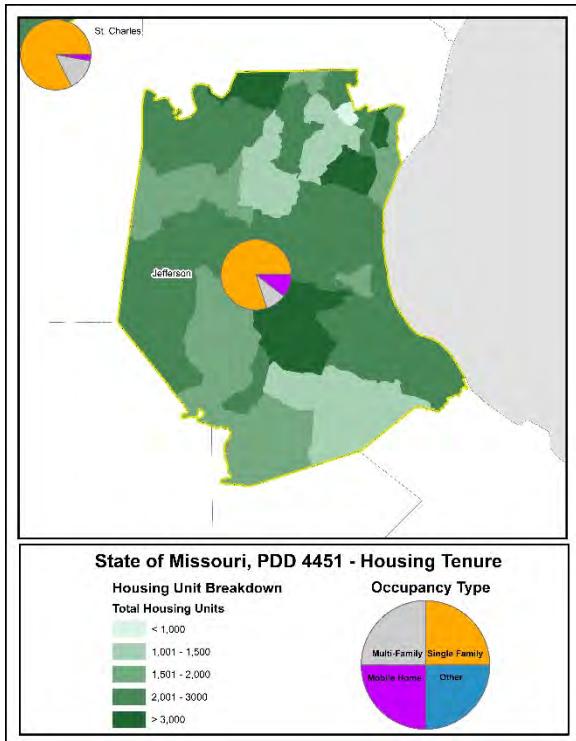


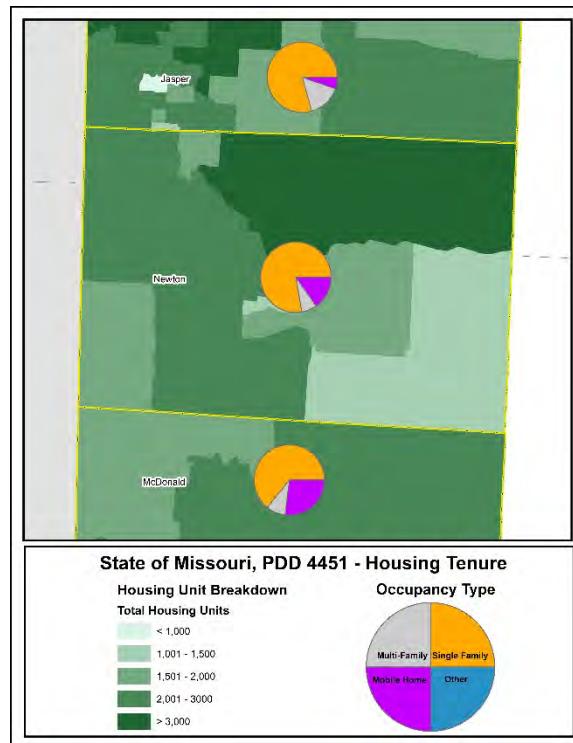
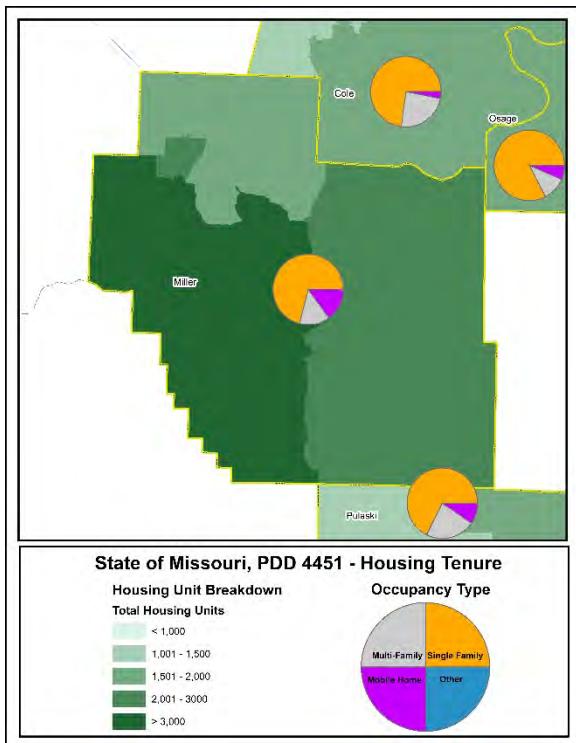
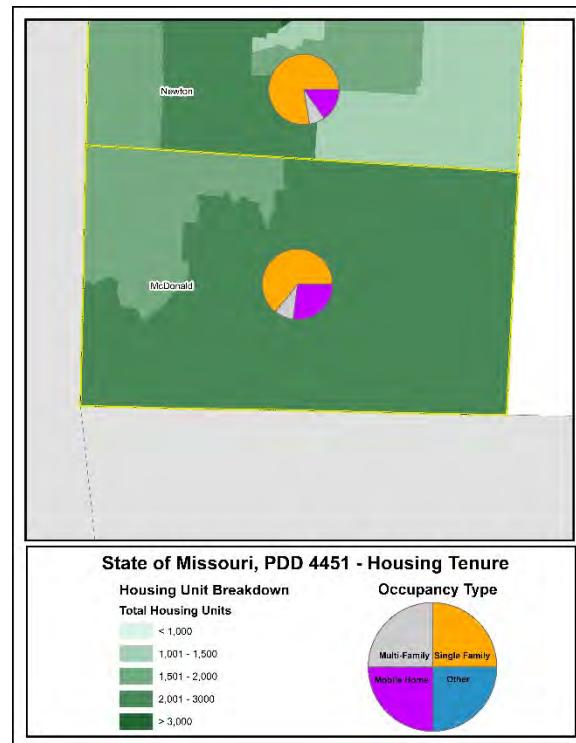
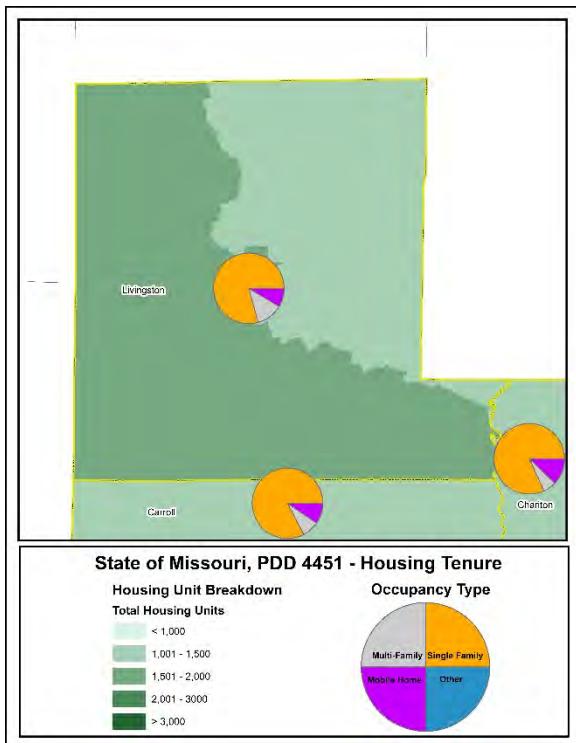
Appendix L: DR-4451 Housing Occupancy

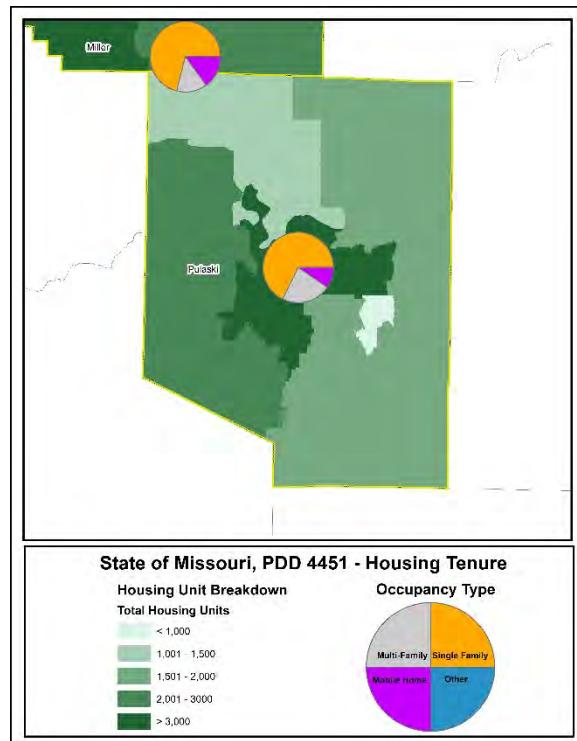
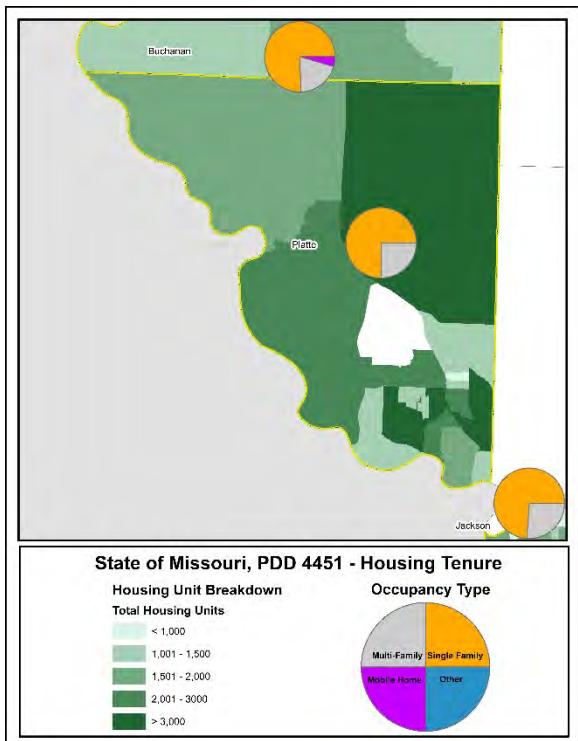
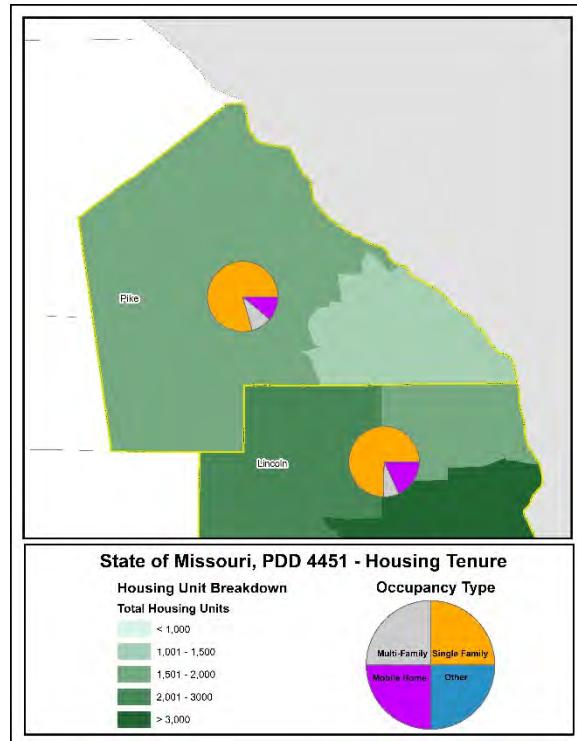
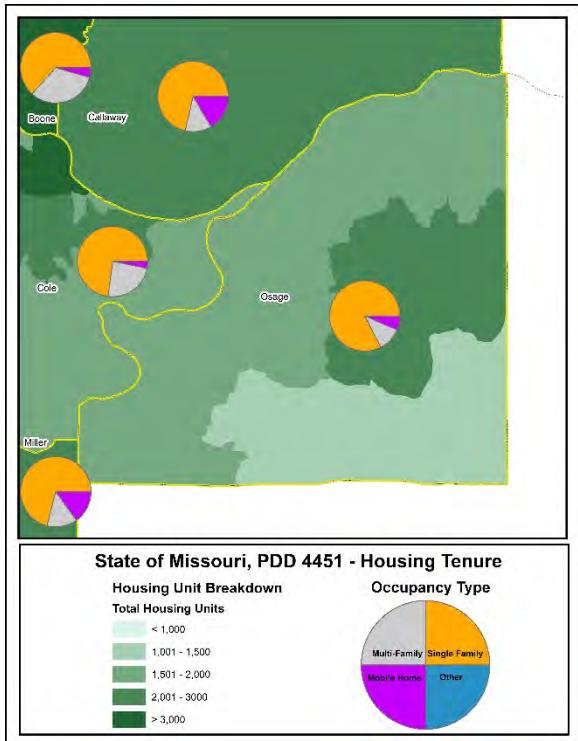


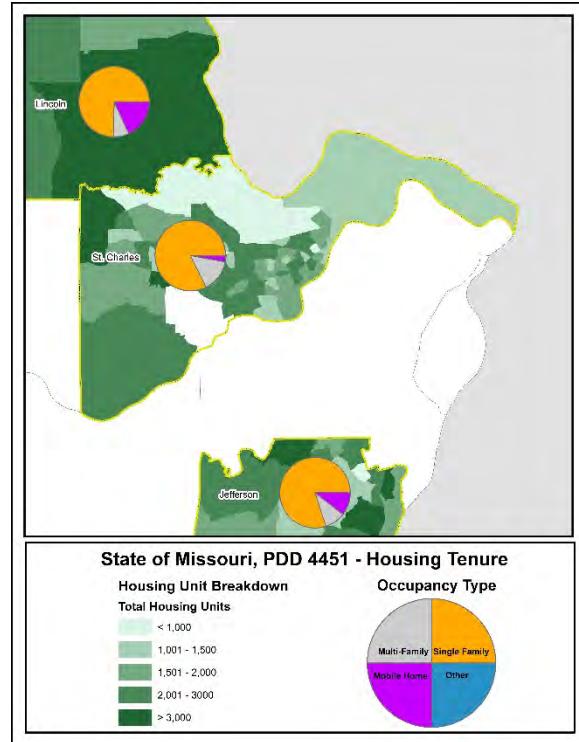
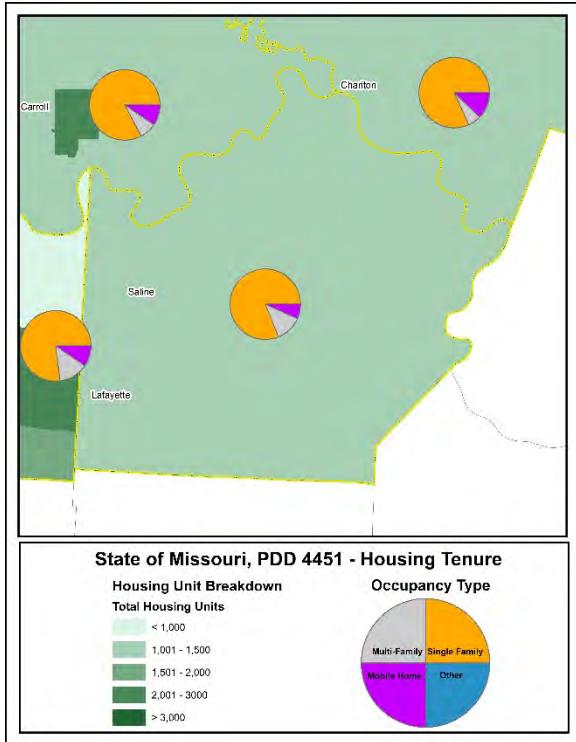












Appendix M: DR-4451 County Mobile Homes

